EXIO™ II

User's Manual
Version 1.0

NEOMEDIA Technologies

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About this manual

Many thanks for choosing our EXIO II reading system.

This manual comprises all information to install and run your EXIO II reading system. Furthermore, it contains important instructions on configuring user-specific parameters – either via the in-device touchscreen (Chapter 2) or via web browser interface (Chapter 3).

Please read the following instructions carefully to ensure the best possible usage and performance from your EXIO II reading system.

Please contact our support for any further questions.

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Introduction

EXIO II is a multi-application smart scanner that has been designed to read and process 2D symbols (such as Data Matrix codes from mobile phone displays) as well as printed 1D and 2D barcodes. By combining a high-speed digital scanner processor and high-resolution camera, EXIO II automatically recognizes 2D barcodes sent as multimedia message service (MMS), enhanced message service (EMS), or smart message (picture message) to any compatible mobile phone.

The cutting-edge technology of the EXIO II smart scanner allows your customers to redeem mobile tickets and coupons. It makes it easy and affordable for you to use creative new mobile marketing text messaging programs to track and reach customers.

With a colour LCD touch-screen and video playback capability, the EXIO II can be customized to display targeted content and brand messages. It is the ideal tool for one-to-one marketing applications and highly targeted customer campaigns.

CHAPTER 1

Unpacking and connecting your EXIO II

This chapter introduces the EXIO II reading system and describes how to connect it.

- **Packaging contents**
- **Product components**
- **Rear panel connectors**
- **Inserting the SIM card**
- **Connecting to the power supply**
- **Connecting a data cable (optional)**

Packaging contents

Please check the completeness of your EXIO II package.

The package consists of:

- 1 EXIO II with inserted 2 GByte microSD storage card
- 1 wall plug power supply with 3 exchangeable mains adapters (Europe, UK, USA)
- 1 USB cord (USB-A to USB-B)
- 1 Ferrite (Star-Tec)

Note: If any of these items are missing or damaged, please contact our support. Retain the shipping box in case you need to ship the scanner

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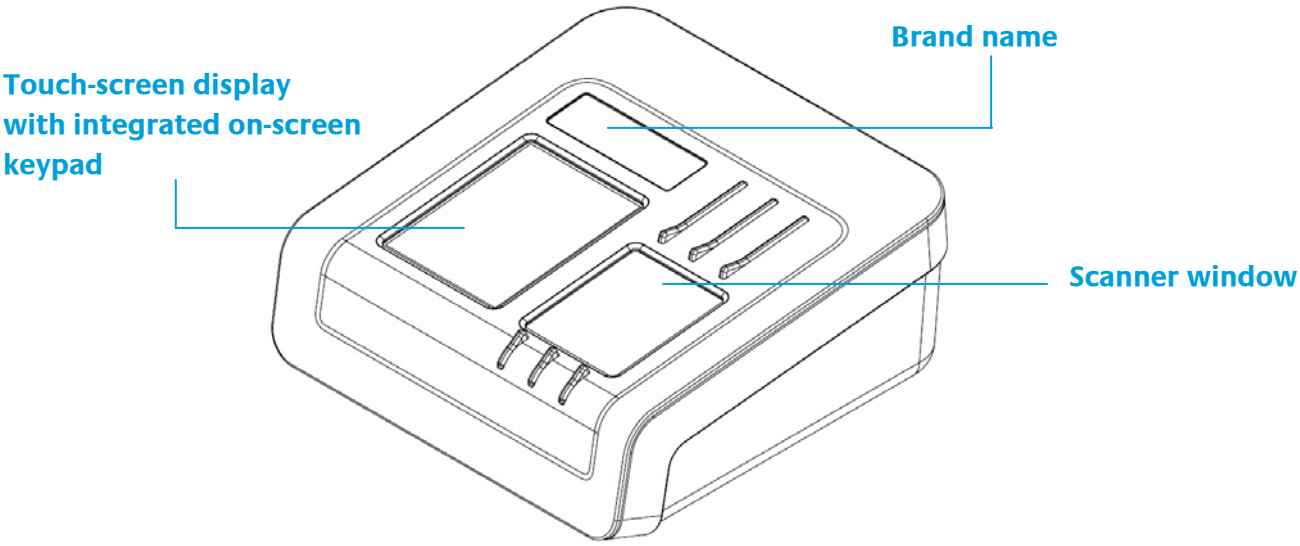
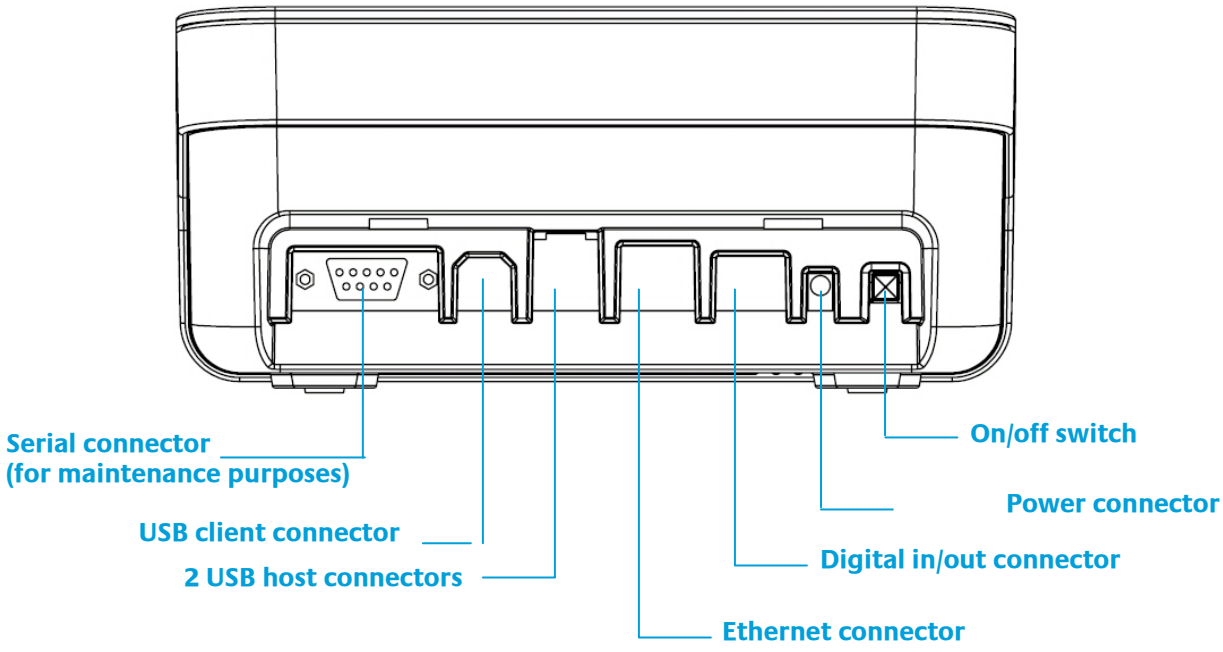
Acquainting with the reading system

Product components



Rear panel connectors



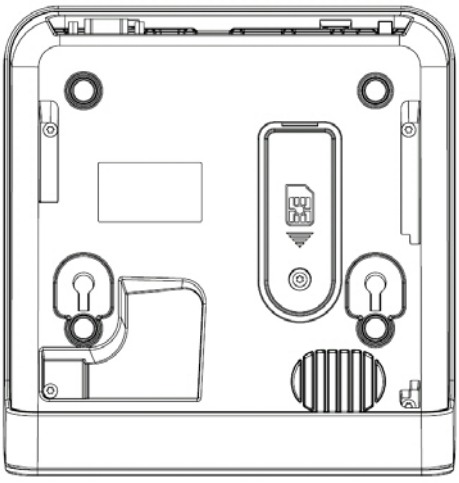
Connecting your EXIO II

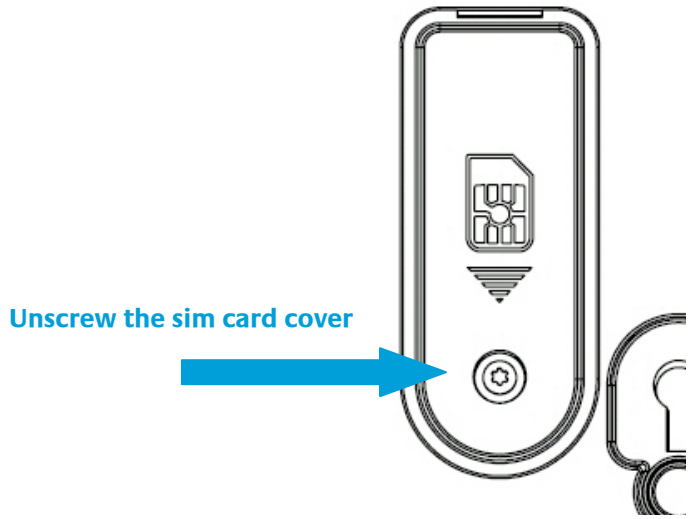
To run EXIO II, you need a SIM card with the following specifications:

- 3.3 V
- small size
- activated for GPRS

Inserting the SIM card

- Unscrew the sim card cover (marked with a SIM card logo) under the EXIO II reader and take it off as shown in the picture below.
- The black SIM card holder is now visible. To open the holder move it in direction of the speaker grill and fold it up. Unsert the SIM card as indicated.
- Fold the holder down and move it back until it locks.
- Put the cover back in place and fasten the locking screw.

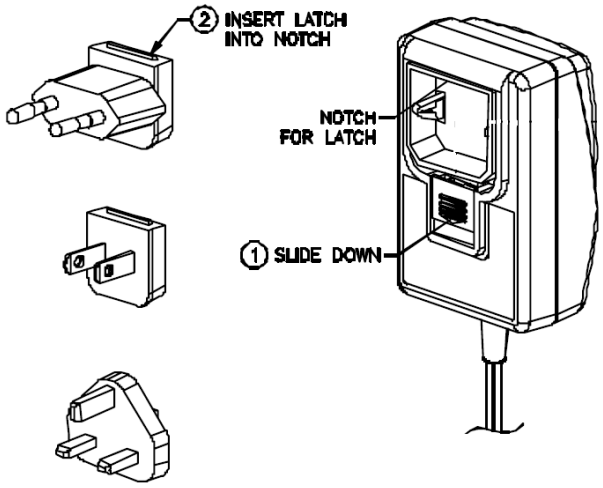




Connecting to the power supply

- Connect the correct mains adapter to fit your local wall socket to the wall plug power supply.

Remark: Power connectors vary from country to country. Make sure you are using the appropriate mains adaptor. The provided wall plug power supply has 3 exchangeable mains adapters. To remove and change the adapter, slide the panel down vertically into position as described in ①. Insert then the appropriate adaptor into the power supply as described in ②.



Remark: Your EXIO II provides a wide range of connectivity options. Apart from establishing a connection to the backend via the built-in GPRS data modem, there is the possibility to use the built-in Ethernet or USB interface to establish a cable connection to your host system

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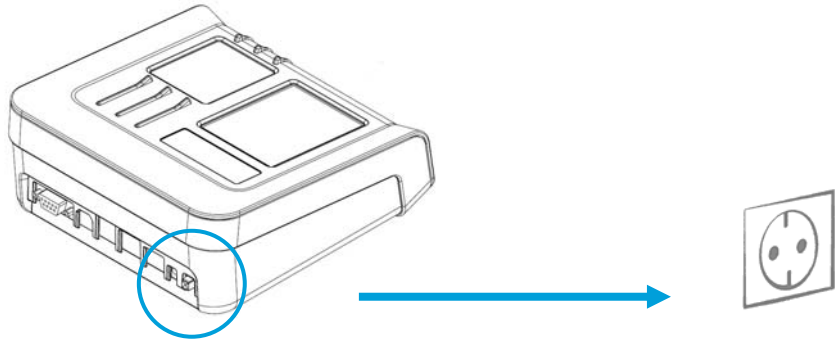
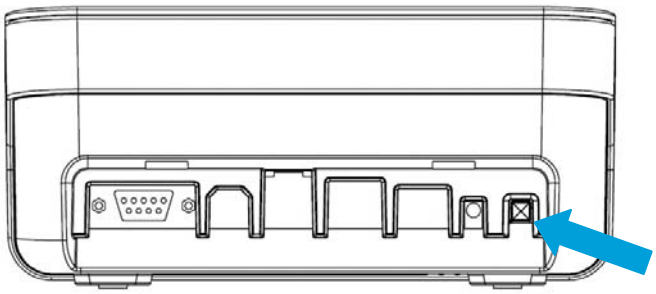
Important: Only connect one data cable at a time (i.e. Ethernet or USB client interface) and attach the supplied ferrite to this cable. Position the ferrite approx. 10 cm from the connector facing towards the EXIO II device.

- Connect your EXIO II to the provided wall plug power supply and plug the power supply into a standard power outlet.



- Switch on the EXIO II reading system with the on/off-switch at the rear of the device. The switch locks in to positions: ON: pushed-in / OFF: released

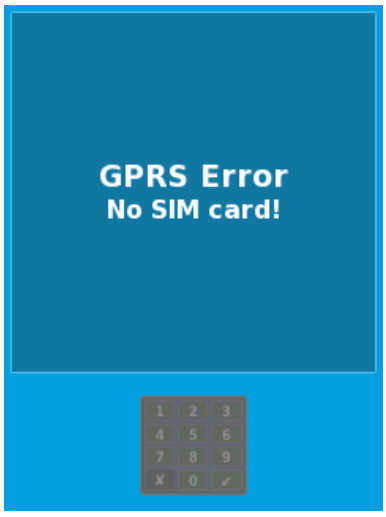


- ***"Connecting..."*** will appear on the display, then "***Ready***" which indicates the device readiness for operation.

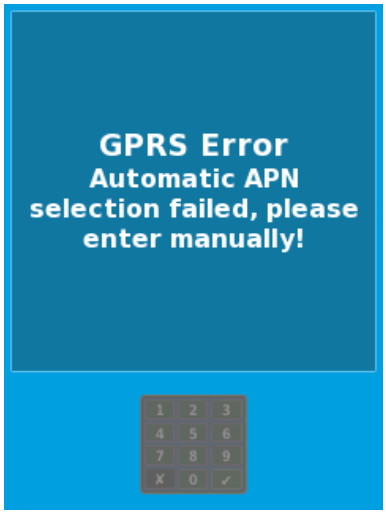
Remark: The default connection is Ethernet. If you want to connect EXIO II via GPRS, you have to configure it via the setup mode. Please refer to *"Enabling and configuring GPRS"* on page 27. Following messages will be then displayed: ***"Initializing system..."***, then ***"Connecting..."*** and possibly ***"Updating..."***. After a few seconds "***Ready***" will appear on the display to indicate the device readiness for operation. This signifies that the inserted SIM card is activated for GPRS, the available PIN number has been properly entered, the APN name has been correctly entered and the device is online.

Important: If EXIO II hasn't been properly connected to GPRS, some error messages may appear.

If the message "**GPRS Error – Please specify SIM PIN**" appears, it means that you entered the wrong PIN number. In this case, please read chapter *"Changing setup menu PIN number"* on page 37.



The error message "**GPRS Error – No SIM card**" indicates that the SIM card is missing. You must ensure that the SIM card is correctly inserted. In this case, please read chapter *"Inserting the SIM card"* on page 11.



The error message **„GPRS Error – Automatic APN selection failed, please enter manually!"** specifies that the GPRS APN is invalid or the GPRS network is not available. In this case, please refer to chapter *"Enabling and configuring GPRS"* on page 27. Please contact our support for any further questions.

CHAPTER 2

Configuring your EXIO II via in-device touchscreen

Important: There are two ways to configure and setup the EXIO II reading system – either via the in-device touchscreen (Chapter 2) or via web browser interface (Chapter 3).

This chapter describes how to configure the EXIO II via device to meet your specific needs and individual area of application.

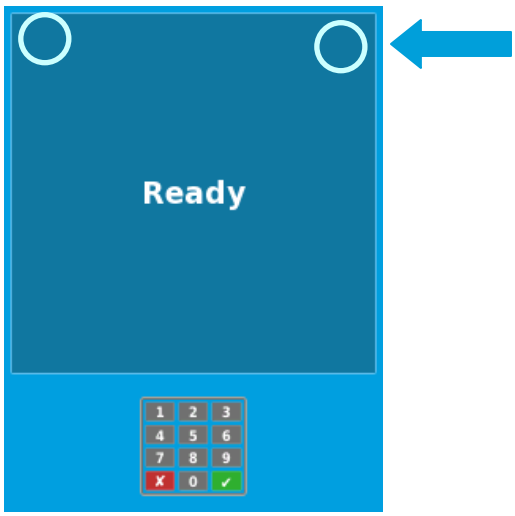
On the one hand, you can set some display variables like time, date and language, but also maintain media files and define messages to be displayed. On the other hand, you can set up the communication between EXIO II and host system, and define which types of 2D barcodes will be decoded.

- **Retrieving device information**
- **Setting up the interfaces**
- **Configuring validation**
- **Defining display messages**
- **Servicing (Updating & uploading files)**
- **Changing the language**
- **Defining the barcode types**
- **Calibrating the touchscreen**
- **Configuring the sound**
- **Adjusting the printer**
- **Setting up the time**
- **Using the camera**

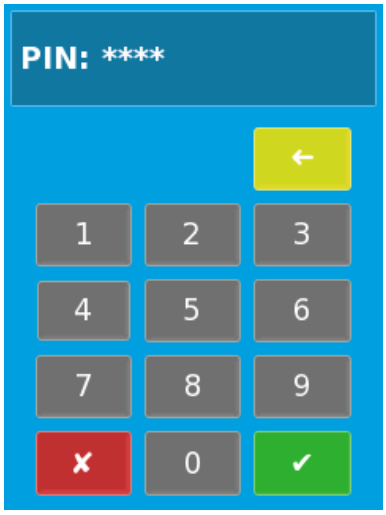
Accessing the setup menu

To activate the configuration mode of your EXIO II and access the setup menu, please process as follows:

- Touch the upper left corner and then the upper right corner of the display.

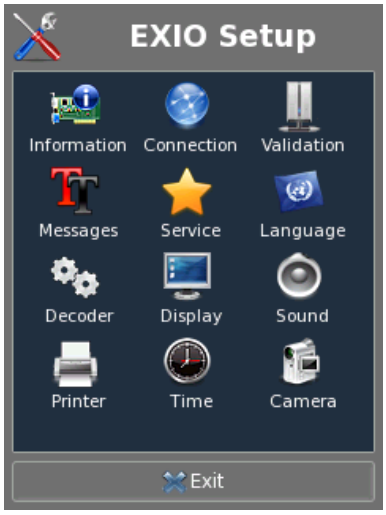


- Enter the menu PIN and touch the green checkbox to confirm.



Important: The default menu PIN number is set to "**1234**".

Remark: Change the menu PIN to a personal PIN number to avoid unwanted manipulation of the EXIO II system (*„Service" -> "Security").* Please refer to chapter "*Changing setup menu PIN number*" on page 37.



- Tap ***Exit*** button to exit the setup menu.

Important: After tapping “OK” on any of the setup pages, the changes are accepted and active. However, they are not permanently stored and are reset to the original values after a system reset or power-off. Tapping “Save” permanently applies the changes to non-volatile memory as new default values.

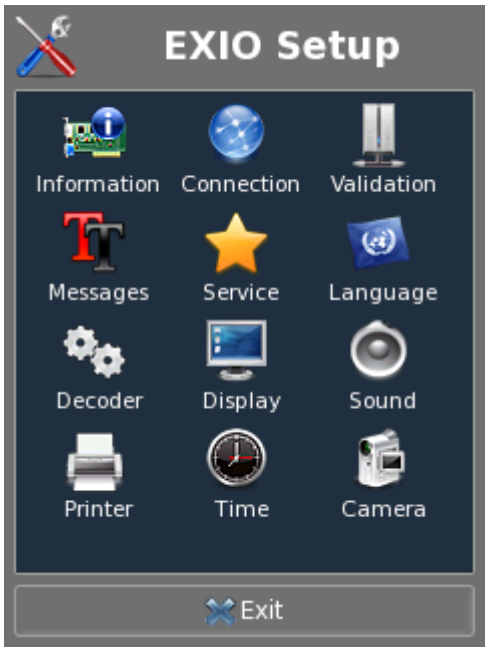
Remark: After editing and before leaving the setup menu with ***Exit,*** apply changes. by tapping ***Save”. T***o completely quit the configuration mode, tap the buttons ***Back*** and ***Exit*** *as often as indicated*. “***Ready***” indicates the device readiness for operation.

Understanding the settings icons

Once you have accessed the configuration mode and entered into the setup menu, following settings application icons will appear.

Tap any settings application icon to get started.

Tap ***Back*** or ***Cancel*** to get back the EXIO II's setup menu.

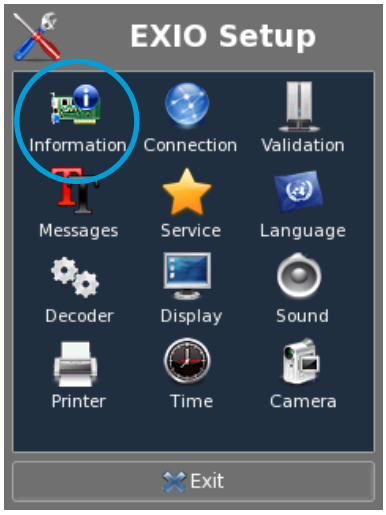


Information	Displays EXIO II system information like serial number, firmware version, MAC address, IMEI and serial numbers of CPU module and hardware.
Connection	Get information on the host name, use and configure the proxy server, GPRS, Ethernet and USB device.
Validation	Configure the concentrator and define regular expressions.
Messages	Specify the messages that will be displayed when initializing the EXIO II, in idle and offline mode as well as during and/or after the decoding of barcodes.
Service	Change the PIN number to access the configuration mode, update your device and settings as well as load and manage media files.
Language	Change the language of the configuration mode.
Decoder	Select the type of 2D and 1D barcodes to be decoded.

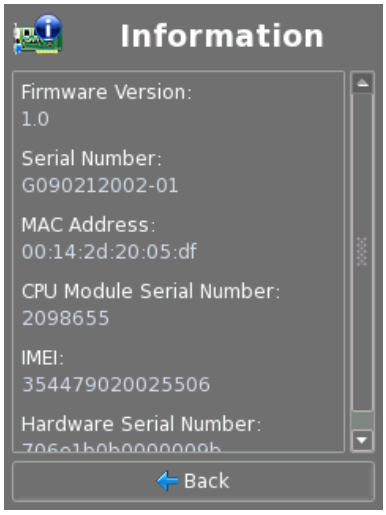
Display	Define the brightness of the display and calibrate the touch screen.
Sound	Define the sound volume.
Printer	Configure the printer that has been connected to the EXIO II reading system.
Time	Set the clock and date, and define the time zone.
Camera	Displays a video live stream of the camera image in a separate window.

Retrieving information (Menu: Information)

- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.



- Tap the ***Information*** icon to get information on the device:
  - Firmware version
  - Serial number
  - MAC address
  - CPU Module Serial Number
  - IMEI
  - Hardware Serial Number

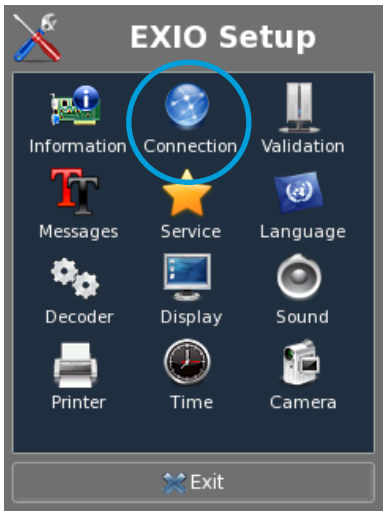


- Tap the ***Back*** button to return to the setup menu.
- Tap the ***Exit*** button to quit the configuration mode. "***Ready***" indicates the device readiness for operation.

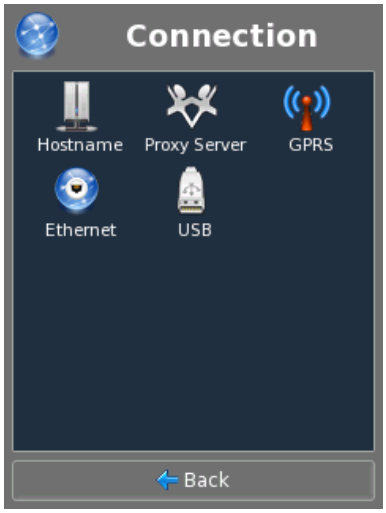
Setting up the interfaces (Menu: Connection)

Selecting the interfaces

- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.



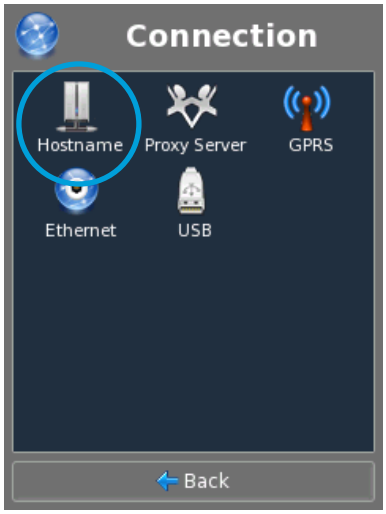
- Tap the ***Connection*** icon to access the interface types.



Remark: Tap any settings application icon to get started. Tap ***Back*** or ***Cancel*** to come back the EXIO II's setup menu. Tap ***Exit*** to leave the configuration mode. ***Ready*** indicates the device readiness for operation.

Defining a hostname

- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.
- Tap the ***Connection*** icon to access the interface types.



- Tap the ***Hostname*** icon.

- A hostname may be already keyed in.

Remark: The default hostname is always the serial number.

- Tap ***OK*** to confirm it.
- Otherwise tap in the text entry field to open the virtual keyboard that can be used like a standard hardware keyboard.

- Use the [←] key of the onscreen keyboard to delete the existing hostname and enter another one.

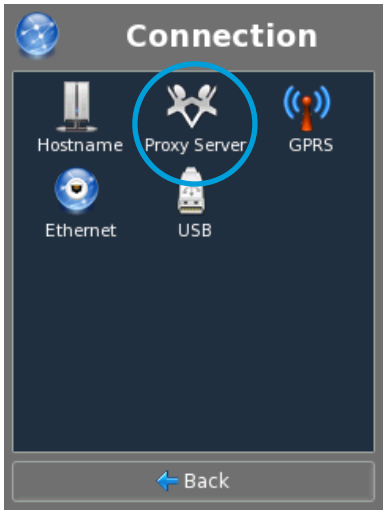
Remark: Use the keys [abc] and [ABC] to switch between lower and upper case letters. Use the key [12.,] to switch into the numerical mode and the key [&<|] to insert special characters.

Remark: Use the key [↵] next to the text entry field to hide the onscreen keyboard.

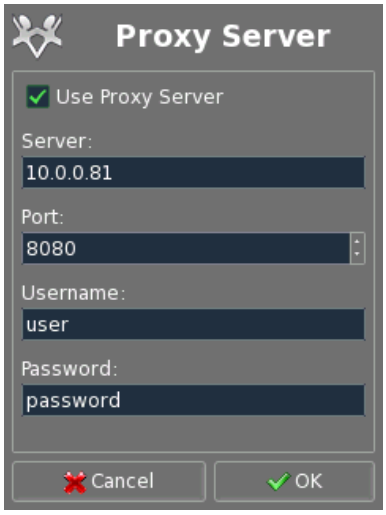
- Tap the key for ***OK*** to confirm the new hostname or the left key ***Cancel*** to go back to the submenu "***Connection***".
- Tap the ***Back*** button to return to the setup menu.
- Tap the ***Exit*** button to quit the configuration mode. "***Ready***" indicates the device readiness for operation.

Configuring a Proxy Server

- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.
- Tap the ***Connection*** icon to access the interface types.



- Tap the ***Proxy Server*** icon.



- Check the box ***Use Proxy Server*** to use a proxy server.
- Tap in the entry field for ***Server*** to type the IP address of the proxy server. A virtual keyboard will be displayed.

Remark: The onscreen keyboard can be used as a usual keyboard. Use the [←] key to delete entries. Use the keys [abc] and [ABC] to switch between lower and upper case letters. Use [12.,] to switch in the numerical mode and the [&<|] to insert special characters.

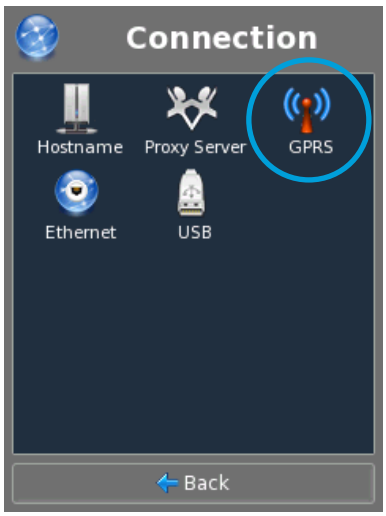
- Tap in the other entry fields for ***Port***, ***Username*** and ***Password*** to define the proxy port number, secure it with username and password.

Remark: Use the key [↵] next to the text entry field to hide the onscreen keyboard.

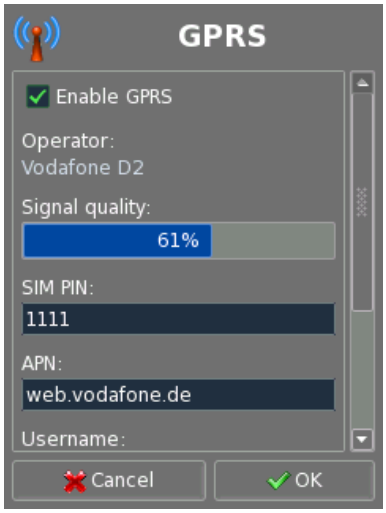
- Tap the key for ***OK*** to confirm your proxy server settings or the left key ***Cancel*** to go back to the submenu "***Connection***".
- Tap the ***Back*** button to return to the setup menu.
- Tap the ***Exit*** button to quit the configuration mode. "***Ready***" indicates the device readiness for operation.

Enabling and configuring GPRS

- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.
- Tap the ***Connection*** icon to access the interface types.



- Tap the ***GPRS*** icon.



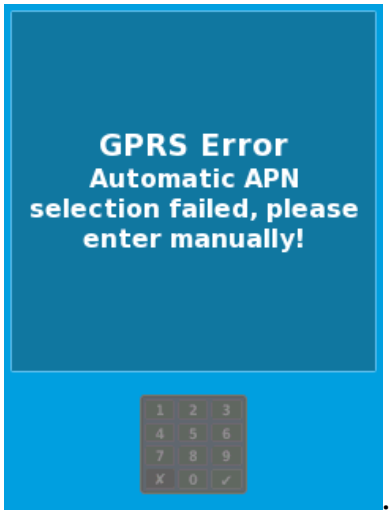
- If GPRS was already enabled, Network Operator and network signal quality will be checked and displayed.

- **Remark:** For enabling the GPRS functionality, check the box ***Enable GPRS*** and press ***OK***. The next time you enter the GPRS icon again, ***Network Operator*** and ***Signal Quality*** will be checked and displayed.

- ***PIN number*** , ***GPRS access point name (APN)***, ***User Name*** and ***Password*** will be automatically identified and will be already displayed.

Important: PIN number will be checked after tapping the ***OK*** button. You will be allowed only three attempts to key in the correct PIN number. If you fail, the SIM card will block you out.

Remark: If the error message ***GPRS Error – Automatic APN selection failed, please enter manually*** appears, please enter the access point name manually.



Tap in the appropriate entry fields for ***APN*** to key in and/or change the GPRS access point name. The virtual keyboard will open.

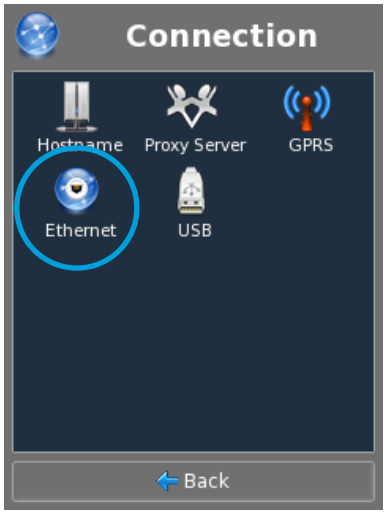
Remark: The onscreen keyboard can be used as a usual keyboard. Use the [←] key to delete entries. Use the keys [abc] and [ABC] to switch between lower and upper case letters. Use [12.,] to switch in the numerical mode and the [&<|] to insert special characters.

Remark: Use the key [↵] next to the text entry field to hide the onscreen keyboard.

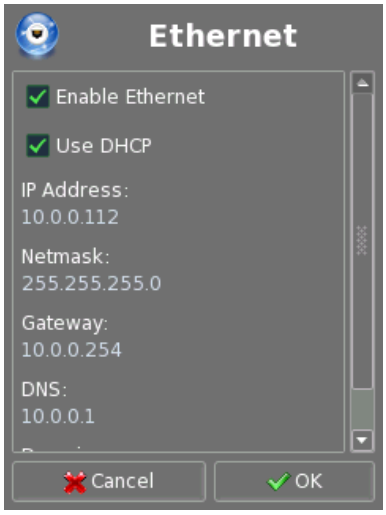
- Tap in the other entry fields for ***Username*** and ***Password*** to secure the GPRS connection with username and password.
- Scroll down the list to select the ***frequency band***. This will be initially set by default to ***Auto***.
- Tap the key for ***OK*** to confirm your GPRS settings or the left key ***Cancel*** to go back to the submenu "***Connection***".
- Tap the ***Back*** button to return to the setup menu.
- Tap the ***Exit*** button to quit the configuration mode. "***Ready***" indicates the device readiness for operation.

Configuring Ethernet

- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.
- Tap the ***Connection*** icon to access the interface types.



- Tap the ***Ethernet*** icon.



- Check the box ***Enable Ethernet*** to allow a connection with Ethernet.
- Check the box ***Use DHCP*** to activate DHCP.
- Tap in the next entry fields to define the ***IP Address***, the ***Netmask***, the ***Gateway*** address, the domain name server (***DNS***) and the ***Domain*** name.
- The virtual keyboard will open.

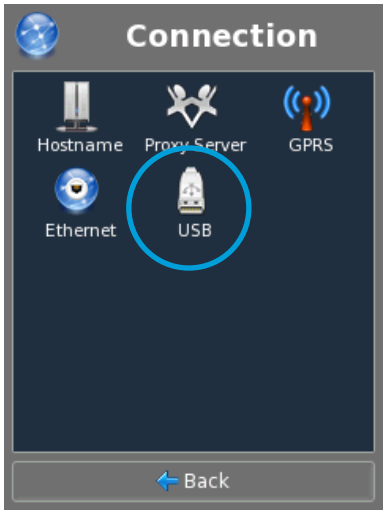
Remark: The onscreen keyboard can be used as a usual keyboard. Use the [←] key to delete entries. Use the keys [abc] and [ABC] to switch between lower and upper case letters. Use [12.,] to switch in the numerical mode and the [&<|] to insert special characters.

Remark: Use the key [↵] next to the text entry field to hide the onscreen keyboard.

- Tap the key for ***OK*** to confirm your Ethernet settings or the left key ***Cancel*** to go back to the submenu "***Connection***".
- Tap the ***Back*** button to return to the setup menu.
- Tap the ***Exit*** button to quit the configuration mode. "***Ready***" indicates the device readiness for operation.

Configuring USB

- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.
- Tap the ***Connection*** icon to access the interface types.

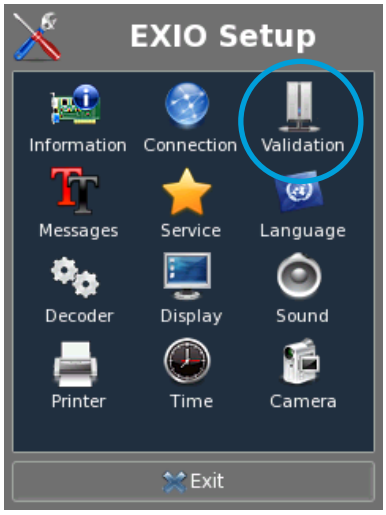


- Tap the ***USB*** icon.

- Use the scroll down list to specify the mode of connection. There are 3 options: ***Ask on connection***, ***Mass Storage*** and ***Ethernet***.
- Tap the key for ***OK*** to confirm your USB settings or the left key ***Cancel*** to go back to the submenu "***Connection***".
- Tap the ***Back*** button to return to the setup menu.
- Tap the ***Exit*** button to quit the configuration mode. "***Ready***" indicates the device readiness for operation.

Configuring validation (Menu: Validation)

- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.



- Tap the ***Validation*** icon.

- ***Concentrator URL*** may be already keyed in.
- Tap in the text entry field to open the virtual keyboard and change the existing URL.

- Use the [←] key of the onscreen keyboard to delete the existing concentrator URL and enter another one.

Remark: Use the keys [abc] and [ABC] to switch between lower and upper case letters. Use the key [12.,] to switch into the numerical mode and the key [&<|] to insert special characters.

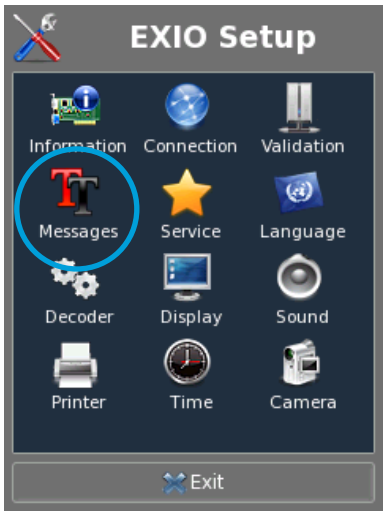
Remark: Use the key [↵] next to the text entry field to hide the onscreen keyboard.

- Tap the entry field for ***Regular Expression*** to open the virtual keyboard and define a new expression.
- Use the scrollbar to set the ***Reread Delay***. This sets the time period before the EXIO II scanner can read the same barcode a second time. Setting a reread delay protects against accidental rereads of the same barcode.
- Tap the key for ***OK*** to confirm the validation settings or the left key ***Cancel*** to go back to the setup menu.
- Tap the ***Exit*** button to quit the configuration mode. "***Ready***" indicates the device readiness for operation.

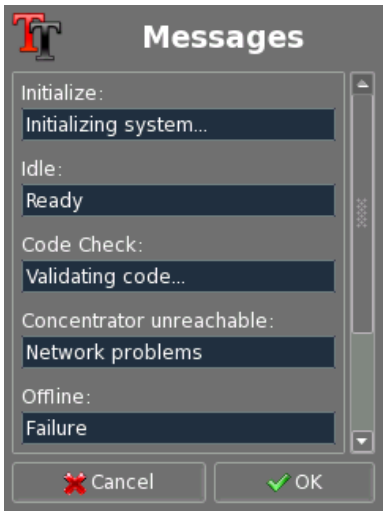
Defining display messages (Menu: Messages)

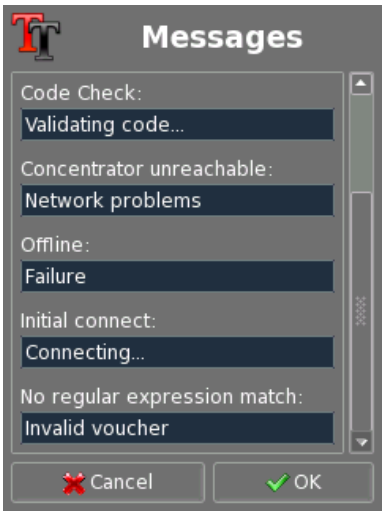
In this section, you can define the messages that will appear on the display when a barcode is being read.

- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.



- Tap the ***Messages*** icon.





- Default messages may be already keyed in.

Remark: Use the vertical scroll bar to move up and down to the different messages.

- Tap in an entry field to open the virtual keyboard and change the existing message.

Initialize	indicates the display message for initializing, e.g. after restarting EXIO II.
Idle	specifies the message which will be displayed when EXIO II is ready for scanning codes.
Code check	indicates the message which will be displayed after a code has been read. In the meantime, the code will be checked for validity.
Concentrator unreachable	indicates the message which will be displayed if the concentrator is unreachable.
Offline	specifies the message which will be displayed when network connection is failing.
Initial connect	specifies the message which will be displayed when EXIO II is first connecting.
No regular expression match	indicates the message which will be displayed when the code comparison with the regular expression failed.

Remark: The onscreen keyboard can be used as a usual keyboard. Use the [←] key to delete entries. Use the keys [abc] and [ABC] to switch between lower and upper case letters. Use [12.,] to switch in the numerical mode and the [&<|] to insert special characters.

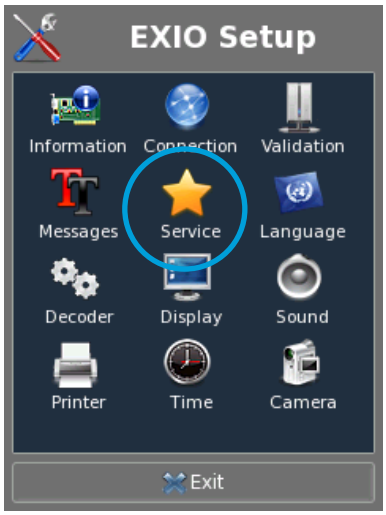
Remark: Use the key [↵] next to the text entry field to hide the onscreen keyboard.

- Tap the key for ***OK*** to confirm your message settings or the left key ***Cancel*** to go back to the setup menu.
- Tap the ***Exit*** button to quit the configuration mode. "***Ready***" indicates the device readiness for operation.

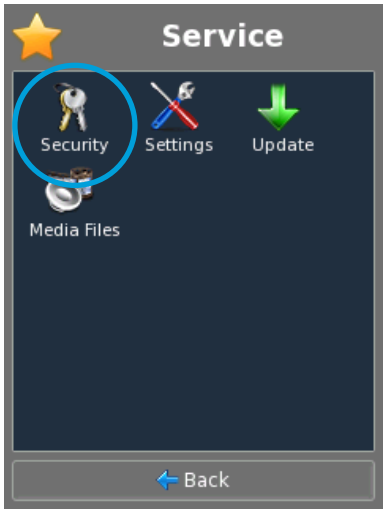
Diverse service settings (Menu: Service)

Changing setup menu PIN number

- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.



- Tap the ***Service*** icon to access the submenus.



- Tap the ***Security*** icon.

Important: The default menu PIN number is set to "**1234**".

Remark: Change the menu PIN to a personal PIN number to avoid unwanted manipulation of the EXIO II system (*„Service" -> "Security").* Please refer to chapter "*Changing setup menu PIN number*" on page 37.

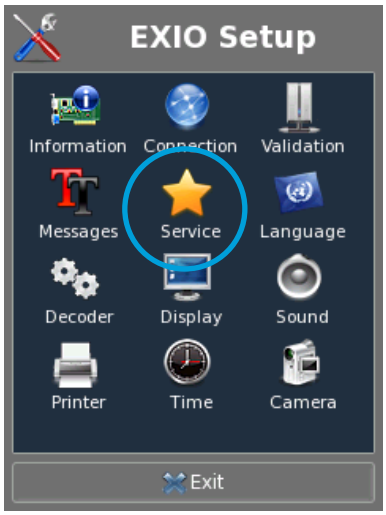
- The default ***Setup PIN*** number is already keyed in. Tap ***OK*** to confirm it.
- Otherwise tap in the text entry field to open the virtual keyboard and change the ***Setup PIN***.

Remark: The onscreen keyboard can be used as a usual keyboard. Use the [←] key to delete entries. Use the keys [abc] and [ABC] to switch between lower and upper case letters. Use [12.,] to switch in the numerical mode and the [&<|] to insert special characters.

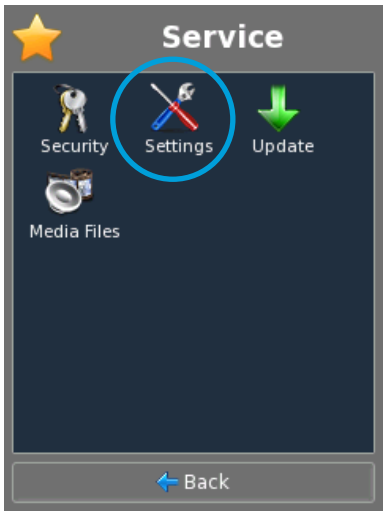
- Tap the key for ***OK*** to confirm the setup PIN number or the left key ***Cancel*** to go back to the submenu "***Service***".
- Tap the ***Back*** button to return to the setup menu.
- Tap the ***Exit*** button to quit the configuration mode. "***Ready***" indicates the device readiness for operation.

Importing, exporting and restoring to factory default settings

- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.



- Tap the ***Service*** icon to access the submenus.



- Tap the ***Settings*** icon.

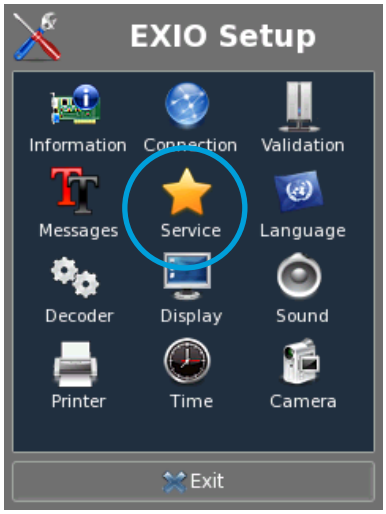
- To import settings, plug-in the USB flash drive in the EXIO II where you want to import the settings. Tap then the button ***Import from USB Drive***.
- To export settings, plug-in the USB flash drive in the EXIO II to where you want to export the settings. Tap then the button ***Export to USB Drive***.
- To reset the device settings to factory default ones, tap the button ***Restore Factory Defaults*** and confirm by tapping on ***Yes***.

- Tap the ***Back*** button to return to the submenu "***Service***".
- Tap the ***Back*** button to return to the setup menu.
- Tap the ***Exit*** button to quit the configuration mode. "***Ready***" indicates the device readiness for operation.

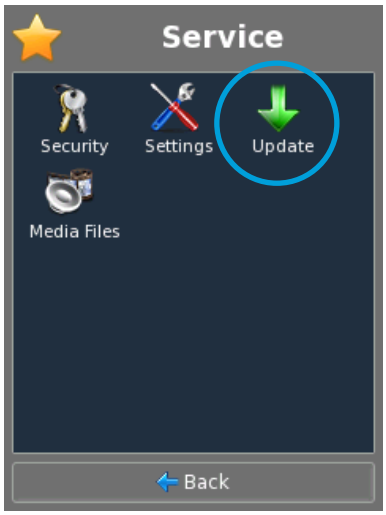
Updating EXIO II

After restarting EXIO II, the update document will check the new settings. You can update your EXIO II using the menu function ***EXIO Update*** from the configuration mode.

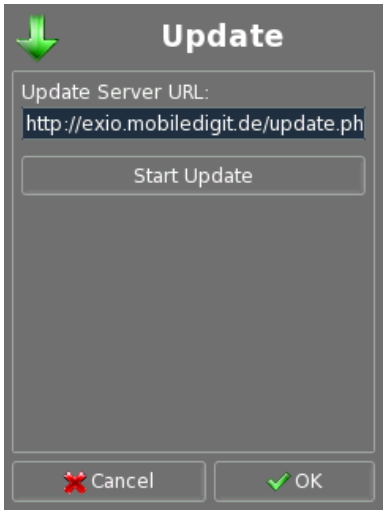
- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.



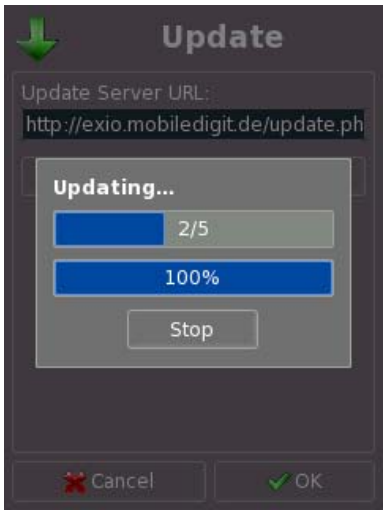
- Tap the ***Service*** icon to access the submenus.



- Tap the ***EXIO Update*** icon.



- Tap the button ***Start Update*** to start updating your settings.



Remark: You can change the ***Update Server URL*** by tapping in the entry field and using the virtual keyboard.

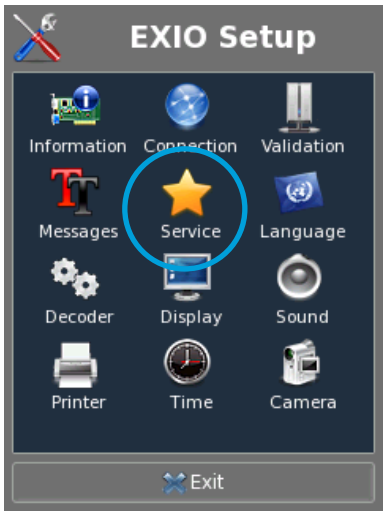
Remark: The onscreen keyboard can be used as a usual keyboard. Use the [←] key to delete entries. Use the keys [abc] and [ABC] to switch between lower and upper case letters. Use [12.,] to switch in the numerical mode and the [&<|] to insert special characters.

- Tap the key for ***OK*** to confirm your update or the left key ***Cancel*** to go back to the submenu "***Service***".
- Tap the ***Back*** button to return to the setup menu.
- Tap the ***Exit*** button to quit the configuration mode. "***Ready***" indicates the device readiness for operation.

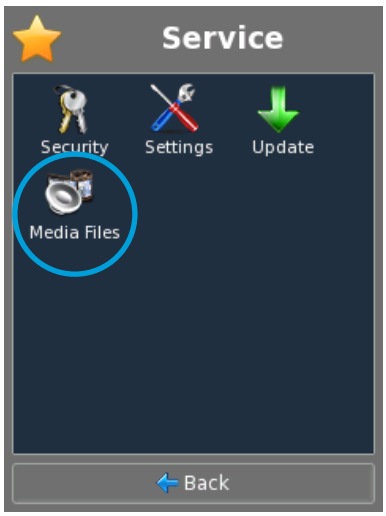
Uploading media files

You can upload images and videos from the memory card in order to customize and personalize your EXIO II reading system. The backend then can decide when these will be displayed and played.

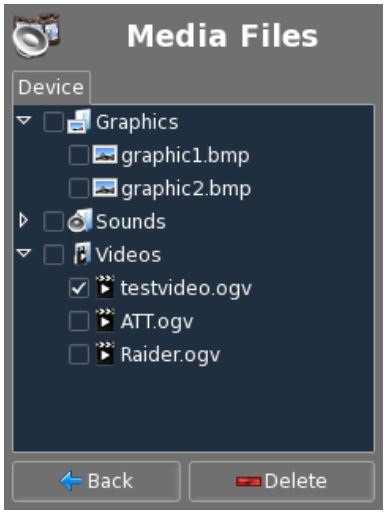
- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.



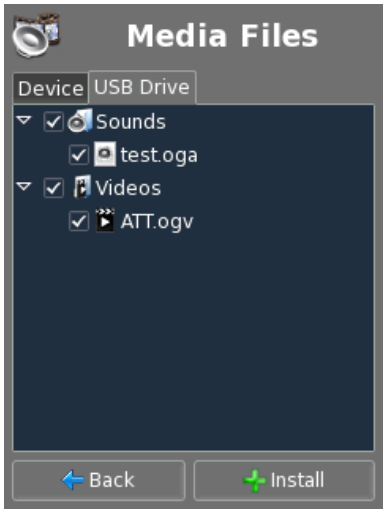
- Tap the ***Service*** icon to access the submenus.



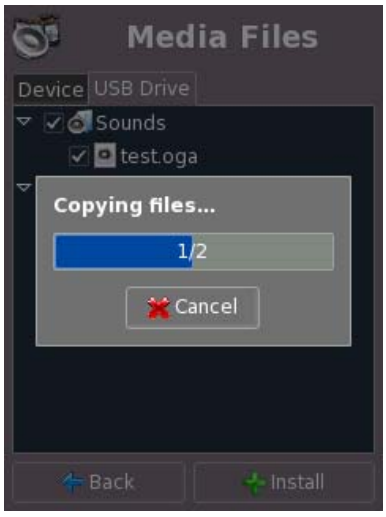
- Tap the ***Media Files*** icon.

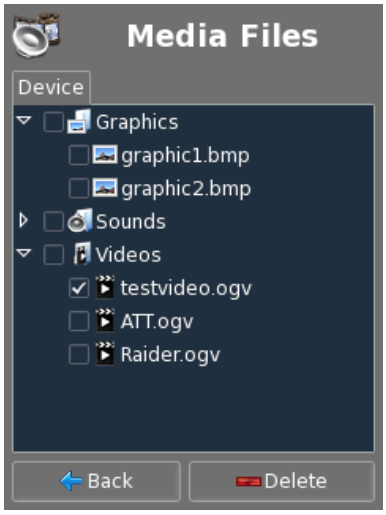


Remark: A second tab “USB Drive” may appear if a USB stick is plugged in.



To copy files from the USB stick to the EXIO II memory card, check the box next to the file that you want to copy, and tap then on ***Install***. They will be copied to the tab “*Device*”.

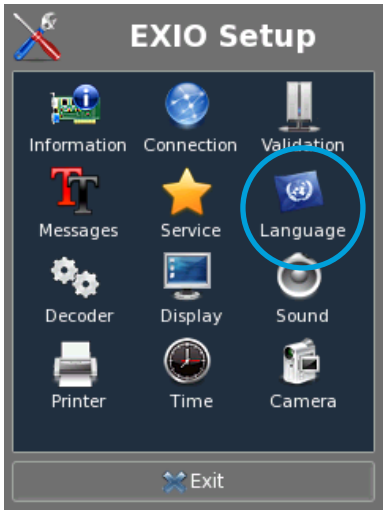




- To delete files from the EXIO II memory card, check the box next to ***Graphics***, ***Sounds*** and ***Videos*** that you want to delete.
- Tap then the ***Delete*** button to remove the selected files from the device.
- Tap the ***Back*** button to return to the setup menu.
- Tap the ***Exit*** button to quit the configuration mode. "***Ready***" indicates the device readiness for operation.

Changing the language (Menu: Language)

- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.

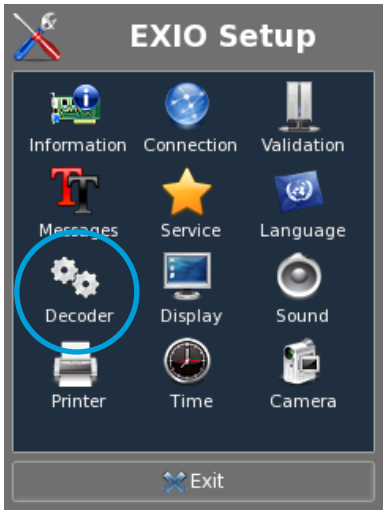


- Tap the ***Language*** icon to access the language choice.

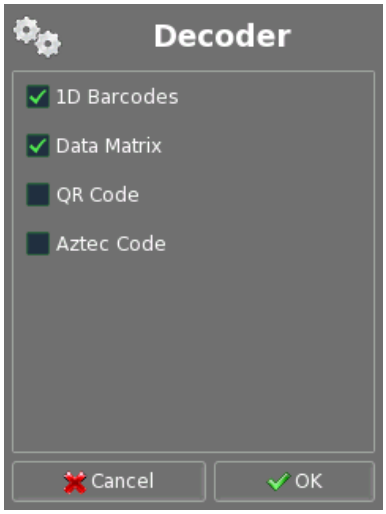
- Select a language.
- Tap the key for ***OK*** to confirm the language choice or the left key ***Cancel*** to go back to the setup menu.
- Tap the ***Exit*** button to quit the configuration mode. "***Ready***" indicates the device readiness for operation.

Defining the barcode types (Menu: Decoder)

- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.



- Tap the ***Decoder*** icon to access the language choice.

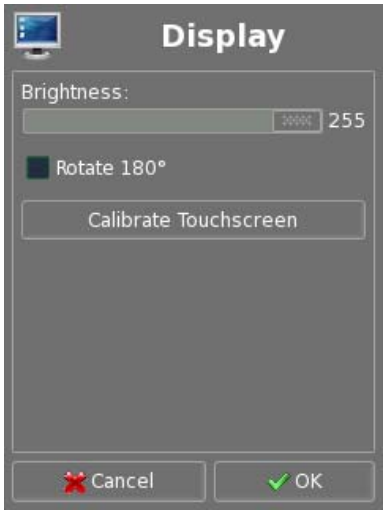


- Check the box next to each code type to switch on the decoding of ***1D Barcodes***, ***Data Matrix***, ***QR Code*** and ***Aztec Code***.
- Tap the key for ***OK*** to confirm your selections or the left key ***Cancel*** to go back to the setup menu.
- Tap the ***Exit*** button to quit the configuration mode. "***Ready***" indicates the device readiness for operation.

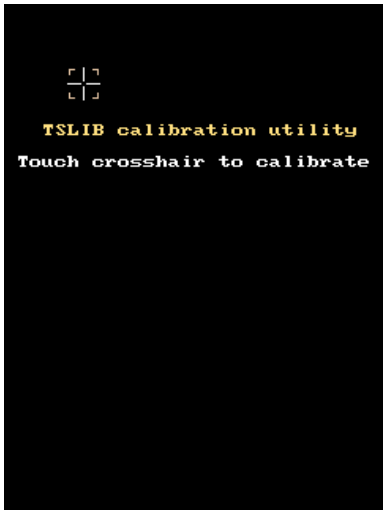
Calibrating the touchscreen (Menu: Display)

- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.

- Tap the ***Display*** icon.



- Use the scroll bar to define the touchscreen brightness.
- Check the box ***Rotate 180°*** if you want to flip the display image.
- Tap the button ***"Calibrate Touchscreen"*** if you want to start the touchscreen calibration. Confirm with ***Yes*** or go back with ***No***.

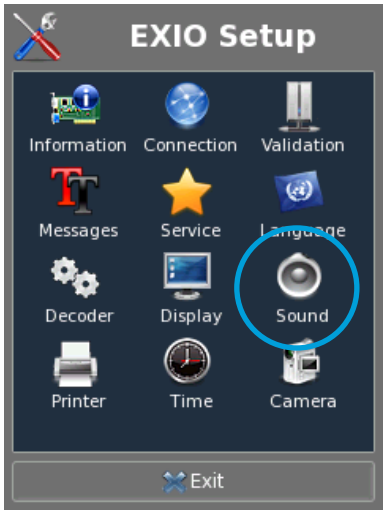


Important: Don’t use a pointy item to calibrate the touchscreen, otherwise you may damage the display screen!

- Tap the key for ***OK*** to confirm your settings or the left key ***Cancel*** to go back to the setup menu.
- Tap the ***Exit*** button to quit the configuration mode. “***Ready***” indicates the device readiness for operation.

Configuring the sound (Menu: Sound)

- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.

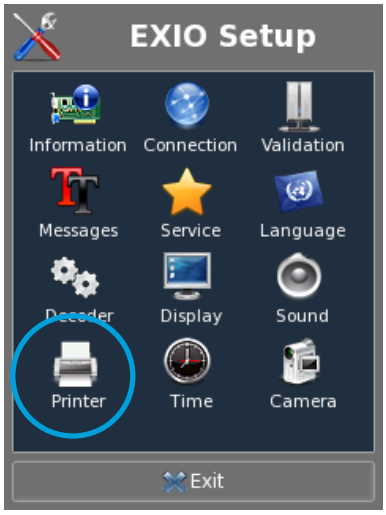


- Tap the ***Sound*** icon.

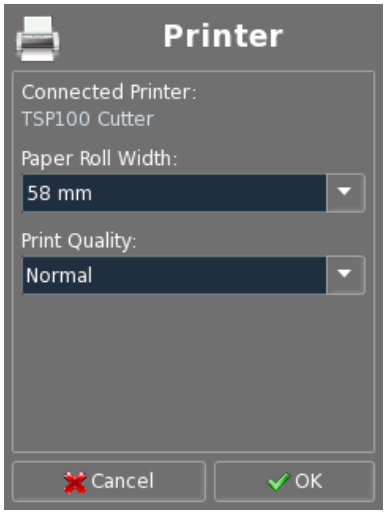
- Use the scroll bar to define the volume.
- Tap the button ***"Play Sound"*** if you want to listen to the sound. The sound will be played.
- Tap the key for ***OK*** to confirm your settings or the left key ***Cancel*** to go back to the setup menu.
- Tap the ***Exit*** button to quit the configuration mode. "***Ready***" indicates the device readiness for operation.

Adjusting the printer (Menu: Printer)

- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.



- Tap the ***Printer*** icon.



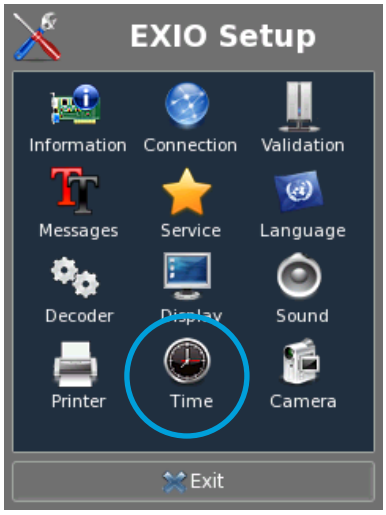
- Use the drop down menu to select the ***Paper Roll Width***.
- Use the drop down menu to select the ***Print Quality***.

Remark: If no printer is connected to the EXIO II, you won't be able to proceed changing these settings.

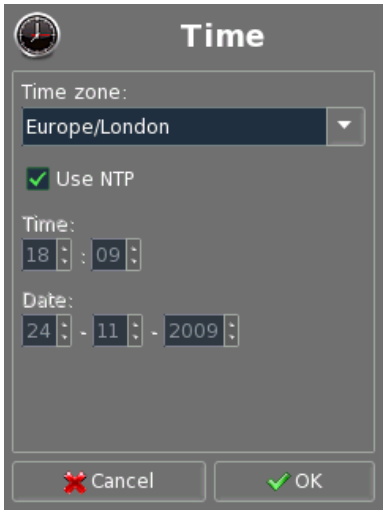
- Tap the key for ***OK*** to confirm your settings or the left key ***Cancel*** to go back to the setup menu.
- Tap the ***Exit*** button to quit the configuration mode. "***Ready***" indicates the device readiness for operation.

Setting up the time (Menu: Time)

- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.



- Tap the ***Time*** icon.



- Use the drop down menu to select your ***Time Zone***.
- Check the box ***Use NTP*** if you want to use the Network Time Protocol to synchronize the EXIO II time to the reference time source.
- If you want to set up manually the time, deactivate the check box ***Use NTP*** and use the virtual keypad by tapping on a number in order to insert the current time and date.

Remark: The onscreen keyboard can be used as a usual keyboard. Use the [←] key to delete entries. Use the keys [abc] and [ABC] to switch between lower and upper case letters. Use [12.,] to switch in the numerical mode and the [&<|] to insert special characters.

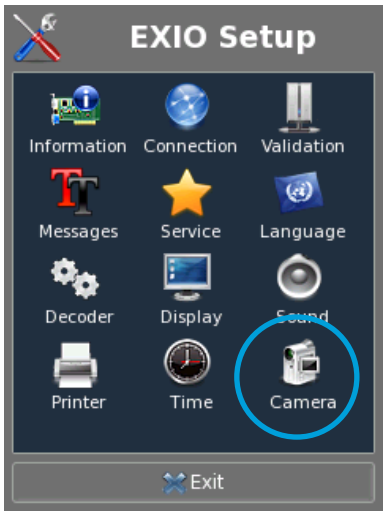
Remark: Use the key [↵] next to the text entry field to hide the onscreen keyboard.

- Tap the key for ***OK*** to confirm your message settings or the left key ***Cancel*** to go back to the setup menu.
- Tap the ***Exit*** button to quit the configuration mode. "***Ready***" indicates the device readiness for operation.

Using the camera (Menu: Camera)

You can use the livestream function of the camera to make snapshot photos and save them to a folder called “Snapshots” on the microSD card inserted into the internal microSD card slot. This microSD card can be accessed via a USB connection (Please refer to “*Connecting EXIO II to the host system*” on page 58).

- Switch in the configuration mode as described in chapter *“Accessing the setup menu”* on page 17.



- Tap the ***Camera*** icon.

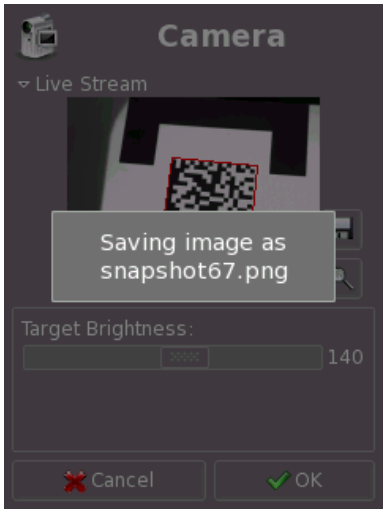
Remark: The live streamed image of the camera will appear in the window.

Remark: You can use the loupe icon to zoom in the live streamed image. Once the image is enlarged, tap on it to reduce the size of the image.

- Use the scroll bar to define the ***Target Brightness*** of the image that appears in the window.

Remark: ***Target brightness*** indicates the grey-scale target value selected for automatic camera adjustment.

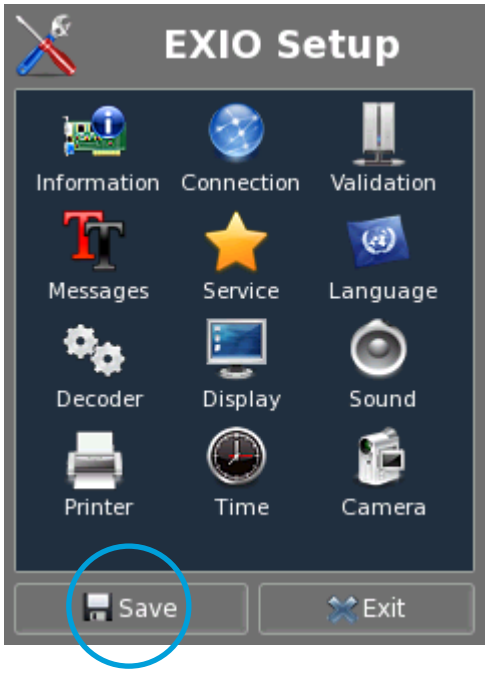
- Tap the disk icon to save the live streamed image.



- Tap the key for ***OK*** to confirm your settings or the left key ***Cancel*** to go back to the setup menu.
- Tap the ***Exit*** button to quit the configuration mode. "***Ready***" indicates the device readiness for operation.

Saving settings

Once you have made some settings, these have to be saved. The new parameter set of EXIO II will be then written to Flash memory.



Attention: If you do not save, all your parameters and settings will be lost when the device is powered off.

- Tap the key for ***Save*** to save your settings.
- Tap the ***Exit*** button to quit the configuration mode. "***Ready***" indicates the device readiness for operation.

CHAPTER 3

Configuring your EXIO II via web browser interface

Important: There are two ways to configure and setup the EXIO II reading system – either via device (Chapter 2) or via web browser interface (Chapter 3).

This chapter describes how to configure the EXIO II via web browser interface in order to carry out all necessary parameterizations and main settings to to achieve the best reading results, adapt them to your specific needs and suit your individual area of application.

- **Connecting the EXIO II to host PC**
- **Installing the driver**
- **Parametrizing EXIO II**

Remark: If you use a USB cable as the link between the host PC and EXIO II, you need to install the Windows driver for the USB cable. The driver is provided with the EXIO II and is located on the device memory card. Please refer to chapter "*Installing the driver for USB cable*" on page 58 to learn how to connect your EXIO II to a host PC and install the driver.

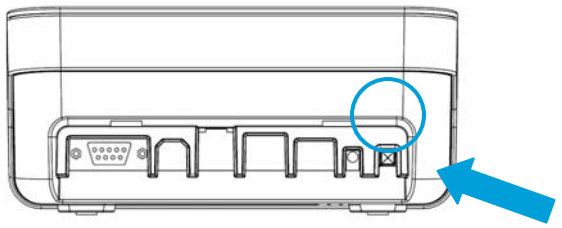
Remark: If you use a Ethernet cable as the link between the host PC and EXIO II, connect both Ethernet ports using an Ethernet cable and go directly to chapter "*Starting web interface configuration*" on page 60 to keep configuring EXIO II.

Installing the driver for USB cable

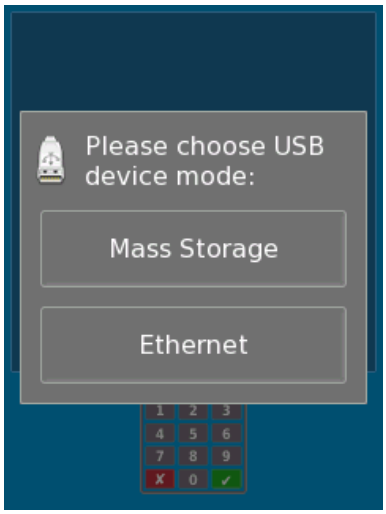
Remark: The first time you connect the EXIO II via a USB cable to your host system, you need to help Windows locate and load the appropriate driver from installation directory located on the EXIO II memory card. The procedure depends on your Windows operating system version.

Connecting EXIO II to the host system

- Take your EXIO II and connect it to the host PC USB port using a USB cable.
- Plug EXIO II into the wall using the provided cable.
- Switch on your PC and wait until Windows is started.
- Switch on the EXIO II reading system with the on/off-switch at the rear of the device.



- Choose ***Mass Storage*** as the USB device mode by tapping on the appropriate button appearing on the EXIO II's touchscreen.



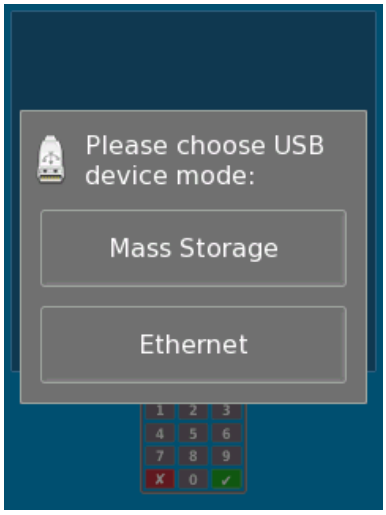
- Following messages will be displayed: ***"Connecting..."*** and then ***"Updating..."***.
- After a few seconds "***Ready***" will appear on the display. "***Ready***" indicates the device readiness for operation.

Locating the driver file

- The ***Found New Hardware*** dialog box is displayed on your host system.
- Open ***My Computer*** and go to the ***Local Disk Volume*** where the EXIO II has been plugged via the USB cable.
- Open the folder ***Driver*** and select the file ***EXIO_RNDIS.inf***. Copy and paste it to the desktop or your local disk C:/.

Loading the driver

- Unplug the USB cable and plug it in again.
- Choose ***Ethernet*** as the USB device mode by tapping on the appropriate button appearing on the EXIO II's touchscreen.



- "***Ready***" will appear on the display to indicate the device readiness for operation.

Remark: If needed, log in with administration rights for the local computer.

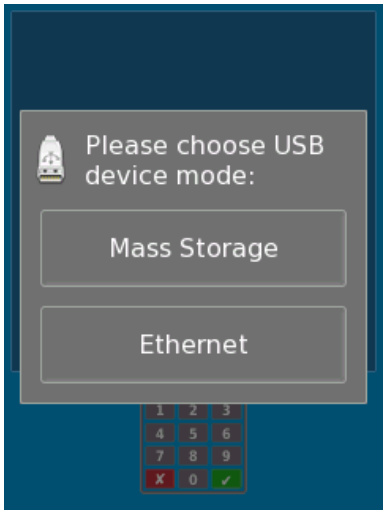
- On the *Found New Hardware Wizard window*, Select ***Install from a list of specific location (Advanced)*** and click ***Next*** to continue.
- Select ***Search for the best driver in these locations*** and ***Include this location in search***.
- Browse to the directory where you have previously saved the driver file ***EXIO_RNDIS.inf***. and click then **Next**.

Remark: If the Windows Logo testing dialog appears, click ***Continue Anyway***.

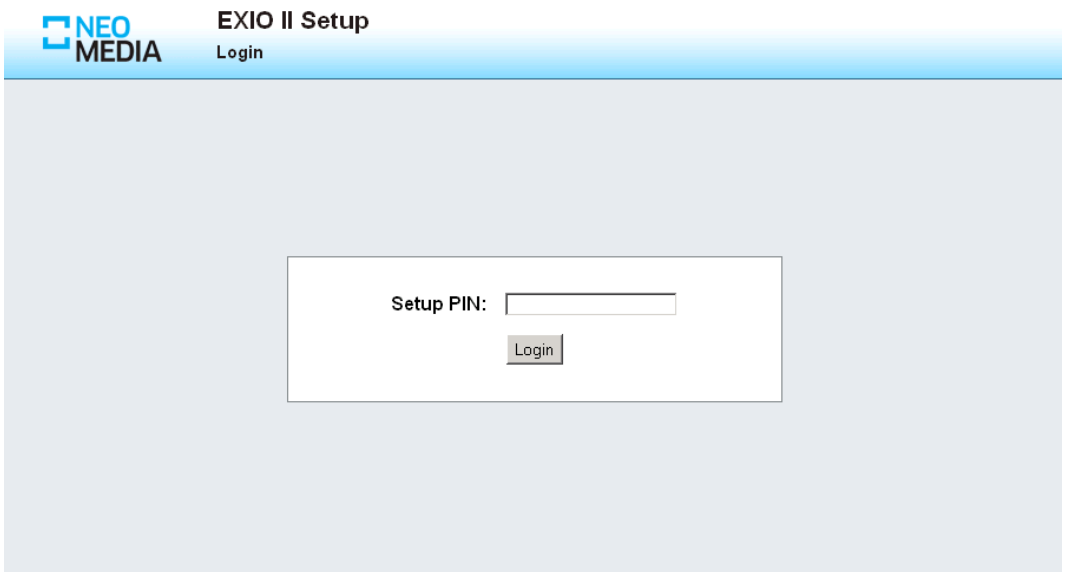
- After the appropriate driver is found, click ***Finish*** to complete the installation.
- A new LAN connection has been automatically established.

Starting web interface configuration

- Switch on your computer and wait until Windows is started.
- Connect your EXIO II to your computer using a USB cable.
- Choose ***Ethernet*** as the USB device mode by tapping on the appropriate button appearing on the EXIO II's touchscreen.



- "***Ready***" will appear on the display to indicate the device readiness for operation.
- The new LAN connection is automatically established.
- Start your internet browser.
- Enter following address: **http://192.168.77.1**
- Enter the setup PIN number.



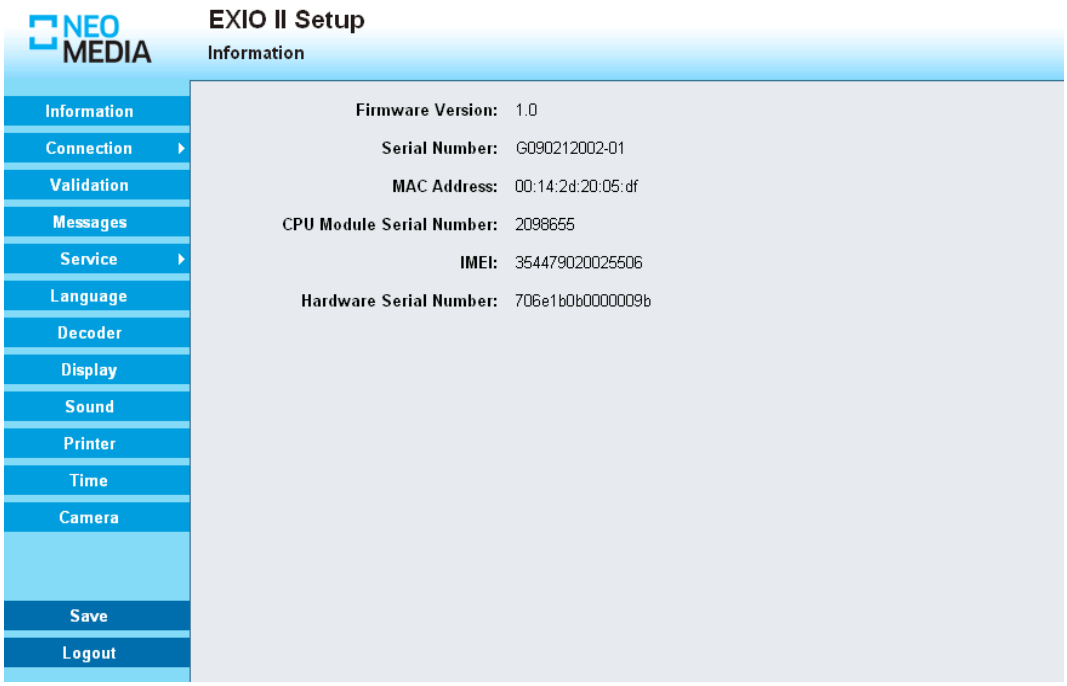
Important: The default menu PIN number is set to "**1234**".

Remark: Change the menu PIN to a personal PIN number to avoid unwanted manipulation of the EXIO II system (*„Service" -> "Security").* Please refer to chapter "*Changing setup menu PIN number*" on page 37.

- Click on ***Login***.

Retrieving information (Menu: Information)

- Start the web browser interface configuration as described in chapter *"Starting web interface configuration"* on page 60.



- Click on the ***Information*** button to get information on the device:
  - Firmware version
  - Serial number
  - MAC address
  - CPU Module Serial Number
  - IMEI
  - Hardware Serial Number

- Click on ***Logout*** to quit the web interface configuration.

Important: Click on Save to save your settings and have them applied. If you do not save, all your parameters will be lost, also in case of a power interruption.

Setting up the interfaces (Menu: Connection)

Entering a hostname

- Start the web browser interface configuration as described in chapter *"Starting web interface configuration"* on page 60.

- Click on ***Connection -> Hostname.***
- A hostname may be already keyed in.
- Enter the desired host name into the ***Hostname*** entry field.
- Click on ***Apply*** to to apply your configuration settings to EXIO.

Important: Click on ***Save*** to save your settings and have them permanently applied. If you do not save, all your parameters will be lost when the device is powered off.

- Click on ***Logout*** to quit the web interface configuration.

Using a proxy server

- Start the web browser interface configuration as described in chapter *"Starting web interface configuration"* on page 60.

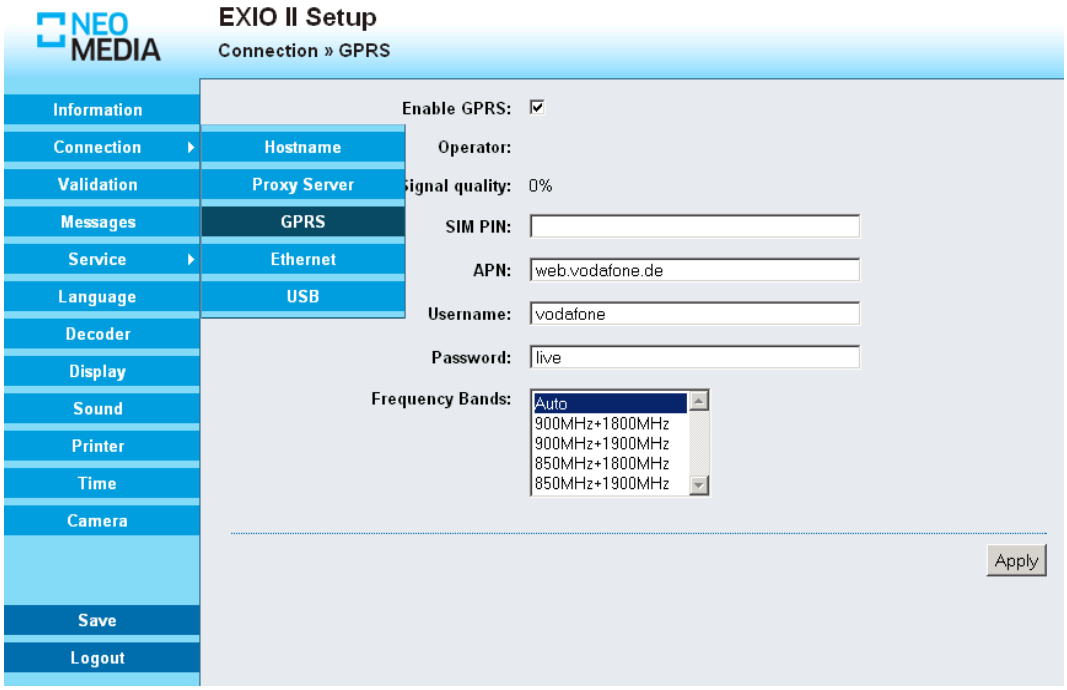
- Click on ***Connection -> Proxy Server.***
- Check the box ***Use Proxy Server***.
- Enter the IP address of the proxy server into the ***Server*** entry field.
- Enter the proxy port number into the ***Port*** entry field.
- Enter a ***username*** and ***password*** into the corresponding other entry fields to secure your proxy server.
- Click on ***Apply*** to to apply your configuration settings to EXIO.

Important: Click on ***Save*** to save your settings and have them definitely applied. If you do not save, all your parameters will be lost, also in case of a power interruption.

- Click on ***Logout*** to quit the web interface configuration.

Enabling and configuring GPRS

- Start the web browser interface configuration as described in chapter *"Starting web interface configuration"* on page 60.



- Click on ***Connection -> GPRS.***
- Check the box ***Enable GPRS***.
- Network operator and network signal quality will be checked and displayed.
- A ***SIM PIN*** number and a GPRS access point name (***APN***) may be already displayed.

Important: PIN number will be checked after restarting the system. You will be allowed only three attempts to key in the correct PIN number. If you fail, the SIM card will block you out.

- Enter a new ***SIM PIN*** and/or ***APN*** into the corresponding entry fields.
- Secure your GPRS by entering a ***username*** and ***password*** into the appropriate entry fields.
- Scroll down the list to select the ***frequency band***. This will be initially set by default to ***Auto***.
- Click on ***Apply*** to to apply your configuration settings to EXIO.

Important: Click on ***Save*** to save your settings and have them definitely applied. If you do not save, all your parameters will be lost, also in case of a power interruption.

- Click on ***Logout*** to quit the web interface configuration.

Configuring Ethernet

- Start the web browser interface configuration as described in chapter *"Starting web interface configuration"* on page 60.

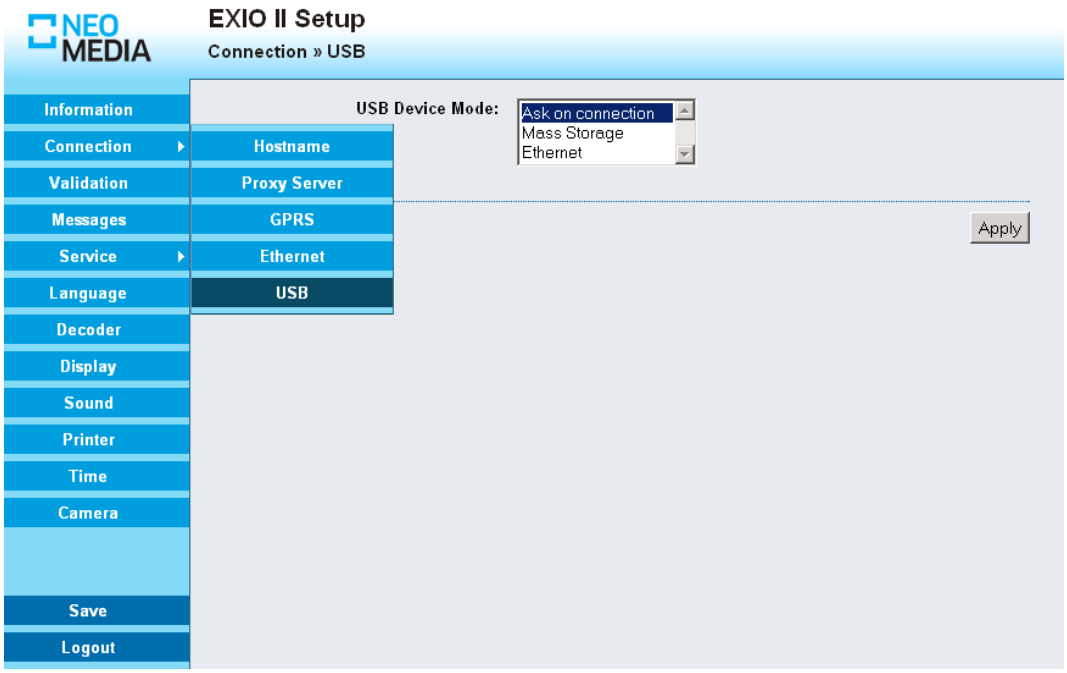
- Click on ***Connection -> Ethernet.***
- Check the box ***Enable Ethernet*** to allow a connection with Ethernet.
- Check the box ***Use DHCP*** to activate DHCP. ***IP Address, Netmask, Gateway*** address, domain name server (***DNS***) and ***Domain*** name are automatically entered.
- To define them manually, disable the check box Use DHCP. All entry fields will be empty.
- Enter then ***IP Address***, the ***Netmask***, the ***Gateway*** address, the domain name server (***DNS***) and the ***Domain*** name into the appropriate entry fields.
- Click on ***Apply*** to to apply your configuration settings to EXIO.

Important: Click on ***Save*** to save your settings and have them definitely applied. If you do not save, all your parameters will be lost, also in case of a power interruption.

- Click on ***Logout*** to quit the web interface configuration.

Configuring USB

- Start the web browser interface configuration as described in chapter *"Starting web interface configuration"* on page 60.



- Click on ***Connection -> USB***.
- Use the scroll down list to specify the mode of connection. There are 3 options: ***Ask on connection***, ***Mass Storage*** and ***Ethernet***.
- Click on ***Apply*** to to apply your configuration settings to EXIO.

Important: Click on ***Save*** to save your settings and have them definitely applied. If you do not save, all your parameters will be lost, also in case of a power interruption.

- Click on ***Logout*** to quit the web interface configuration.

Configuring validation (Menu: Validation)

- Start the web browser interface configuration as described in chapter *"Starting web interface configuration"* on page 60.

- Click on ***Validation.***
- A ***Concentrator URL*** may be already keyed in. Click in the entry field to change and/or enter a new one.
- A ***Regular Expression*** may be already keyed in. Click in the entry field to change and/or enter a new one.
- Define the ***Reread Delay*** in the appropriate entry field. This sets the time period before the EXIO II scanner can read the same barcode a second time. Setting a reread delay protects against accidental rereads of the same barcode.
- Click on ***Apply*** to to apply your configuration settings to EXIO.

Important: Click on ***Save*** to save your settings and have them definitely applied. If you do not save, all your parameters will be lost, also in case of a power interruption.

- Click on ***Logout*** to quit the web interface configuration.

Defining display messages (Menu: Messages)

In this section, you can define the messages that will appear on the display when a barcode is being read.

- Start the web browser interface configuration as described in chapter *"Starting web interface configuration"* on page 60.

- Click on ***Messages.***
- Default messages may be already keyed in.
- Click in the entry fields to change the existing message and/or enter a new one.

Initialize	indicates the display message for initializing, e.g. after restarting EXIO II.
Idle	specifies the message which will be displayed when EXIO II ready for scanning codes.
Code check	indicates the message which will be displayed after a code has been read. In the meantime, the code will be checked for validity.
Concentrator unreachable	indicates the message which will be displayed if the concentrator is unreachable.
Offline	specifies the message which will be displayed when network connection is failing.

Initial connect	specifies the message which will be displayed when EXIO II is first connecting.
No regular expression match	indicates the message which will be displayed when the code comparison with the regular expression failed.

- Click on ***Apply*** to to apply your configuration settings to EXIO.

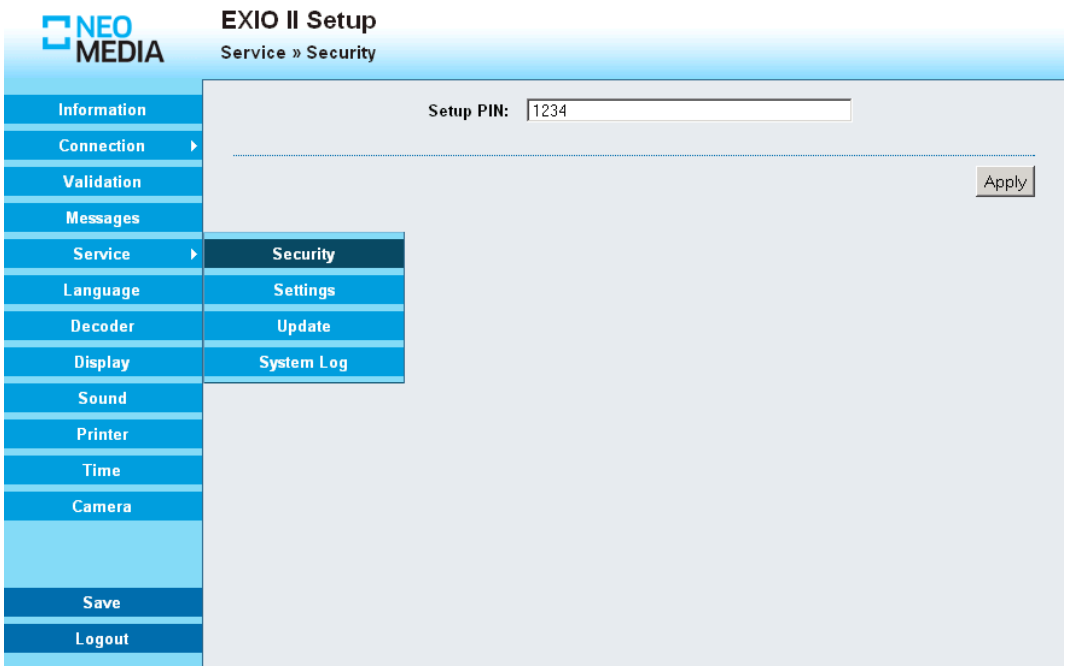
Important: Click on ***Save*** to save your settings and have them definitely applied. If you do not save, all your parameters will be lost, also in case of a power interruption.

- Click on ***Logout*** to quit the web interface configuration.

Miscellaneous service settings (Menu: Service)

Changing setup menu PIN number

- Start the web browser interface configuration as described in chapter *"Starting web interface configuration"* on page 60.



- Click on ***Service -> Security.***
- The default ***Setup PIN*** number is already keyed in.

Important: The default menu PIN number is set to "**1234**".

Remark: Change the menu PIN to a personal PIN number to avoid unwanted manipulation of the EXIO II system (*„Service" -> "Security").* Please refer to chapter "*Changing setup menu PIN number*" on page 37.

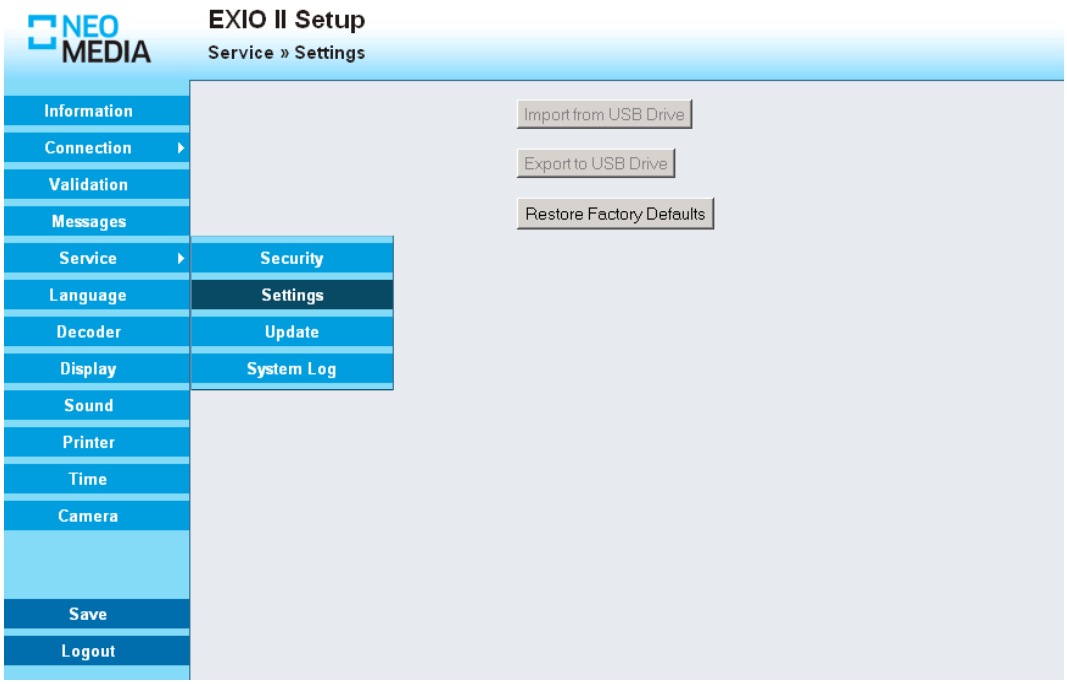
- Enter a new PIN number the entry field ***Setup PIN***.
- Click on ***Apply*** to to apply your configuration settings to EXIO.

Important: Click on ***Save*** to save your settings and have them definitely applied. If you do not save, all your parameters will be lost, also in case of a power interruption.

- Click on ***Logout*** to quit the web interface configuration.

Importing, exporting and restoring to factory default settings

- Start the web browser interface configuration as described in chapter *"Starting web interface configuration"* on page 60.



- Click on ***Service -> Settings.***
- To import settings, plug-in the USB flash drive in the EXIO II where you want to import the settings. Click then on the button ***Import from USB Drive***.
- To export settings, plug-in the USB flash drive in the EXIO II to where you want to export the settings. Click then on the button ***Export to USB Drive***.
- To reset the device settings to factory default ones, click on the button ***Restore Factory Defaults*** and confirm with ***OK***.
- Click on ***Apply*** to to apply your configuration settings to EXIO.

Important: Click on ***Save*** to save your settings and have them definitely applied. If you do not save, all your parameters will be lost, also in case of a power interruption.

- Click on ***Logout*** to quit the web interface configuration.

Updating EXIO II

- Start the web browser interface configuration as described in chapter *"Starting web interface configuration"* on page 60.

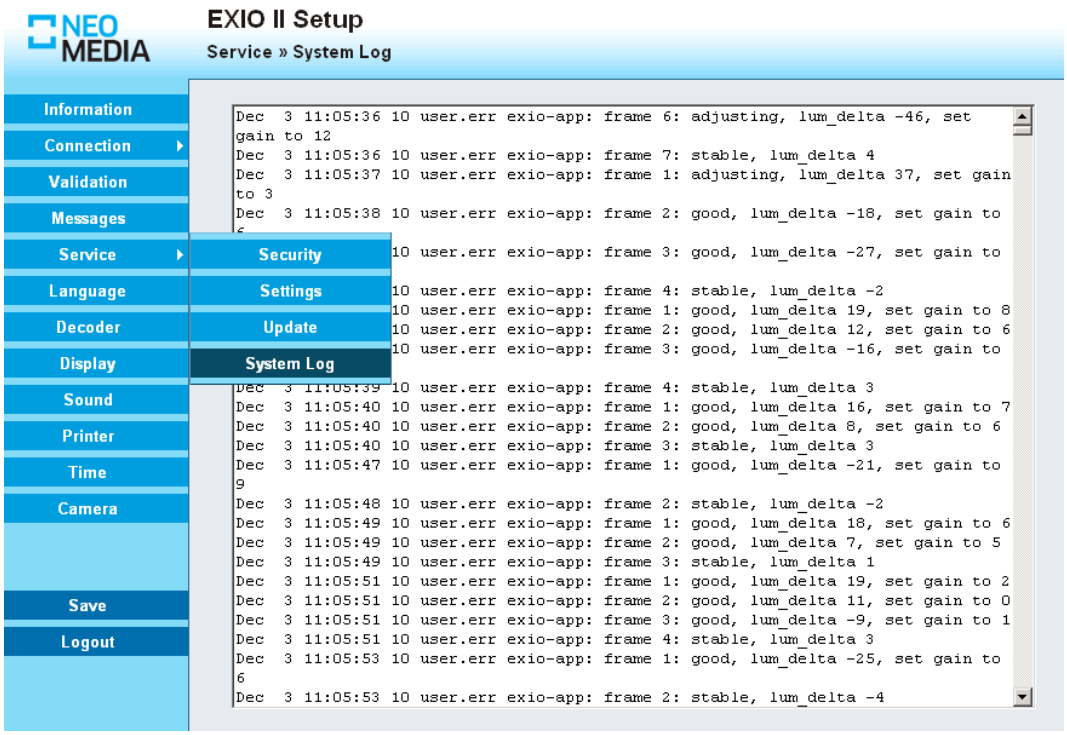
- Click on ***Service -> Update.***
- Enter the URL for the server update into the field "***Update Server URL***".
- Click on ***Apply*** to to apply your configuration settings to EXIO.
- Click on the button ***Start Update*** to start updating the device.

Important: Click on ***Save*** to save your settings and have them definitely applied. If you do not save, all your parameters will be lost, also in case of a power interruption.

- Click on ***Logout*** to quit the web interface configuration.

Viewing system log

- Start the web browser interface configuration as described in chapter *"Starting web interface configuration"* on page 60.


NEO MEDIA
EXIO II Setup
Service » System Log
Information
Connection
Validation
Messages
Service
Language
Decoder
Display
Sound
Printer
Time
Camera
Save
Logout
Security
Settings
Update
System Log
Dec 3 11:05:36 10 user.err exio-app: frame 6: adjusting, lum_delta -46, set gain to 12
Dec 3 11:05:36 10 user.err exio-app: frame 7: stable, lum_delta 4
Dec 3 11:05:37 10 user.err exio-app: frame 1: adjusting, lum_delta 37, set gain to 3
Dec 3 11:05:38 10 user.err exio-app: frame 2: good, lum_delta -18, set gain to
Dec 3 11:05:38 10 user.err exio-app: frame 3: good, lum_delta -27, set gain to
Dec 3 11:05:38 10 user.err exio-app: frame 4: stable, lum_delta -2
Dec 3 11:05:39 10 user.err exio-app: frame 1: good, lum_delta 19, set gain to 8
Dec 3 11:05:39 10 user.err exio-app: frame 2: good, lum_delta 12, set gain to 6
Dec 3 11:05:39 10 user.err exio-app: frame 3: good, lum_delta -16, set gain to
Dec 3 11:05:39 10 user.err exio-app: frame 4: stable, lum_delta 3
Dec 3 11:05:40 10 user.err exio-app: frame 1: good, lum_delta 16, set gain to 7
Dec 3 11:05:40 10 user.err exio-app: frame 2: good, lum_delta 8, set gain to 6
Dec 3 11:05:40 10 user.err exio-app: frame 3: stable, lum_delta 3
Dec 3 11:05:47 10 user.err exio-app: frame 1: good, lum_delta -21, set gain to 9
Dec 3 11:05:48 10 user.err exio-app: frame 2: stable, lum_delta -2
Dec 3 11:05:49 10 user.err exio-app: frame 1: good, lum_delta 18, set gain to 6
Dec 3 11:05:49 10 user.err exio-app: frame 2: good, lum_delta 7, set gain to 5
Dec 3 11:05:49 10 user.err exio-app: frame 3: stable, lum_delta 1
Dec 3 11:05:51 10 user.err exio-app: frame 1: good, lum_delta 19, set gain to 2
Dec 3 11:05:51 10 user.err exio-app: frame 2: good, lum_delta 11, set gain to 0
Dec 3 11:05:51 10 user.err exio-app: frame 3: good, lum_delta -9, set gain to 1
Dec 3 11:05:51 10 user.err exio-app: frame 4: stable, lum_delta 3
Dec 3 11:05:53 10 user.err exio-app: frame 1: good, lum_delta -25, set gain to 6
Dec 3 11:05:53 10 user.err exio-app: frame 2: stable, lum_delta -4

- Click on ***Service -> System Log.***
- The System Log information will be displayed.

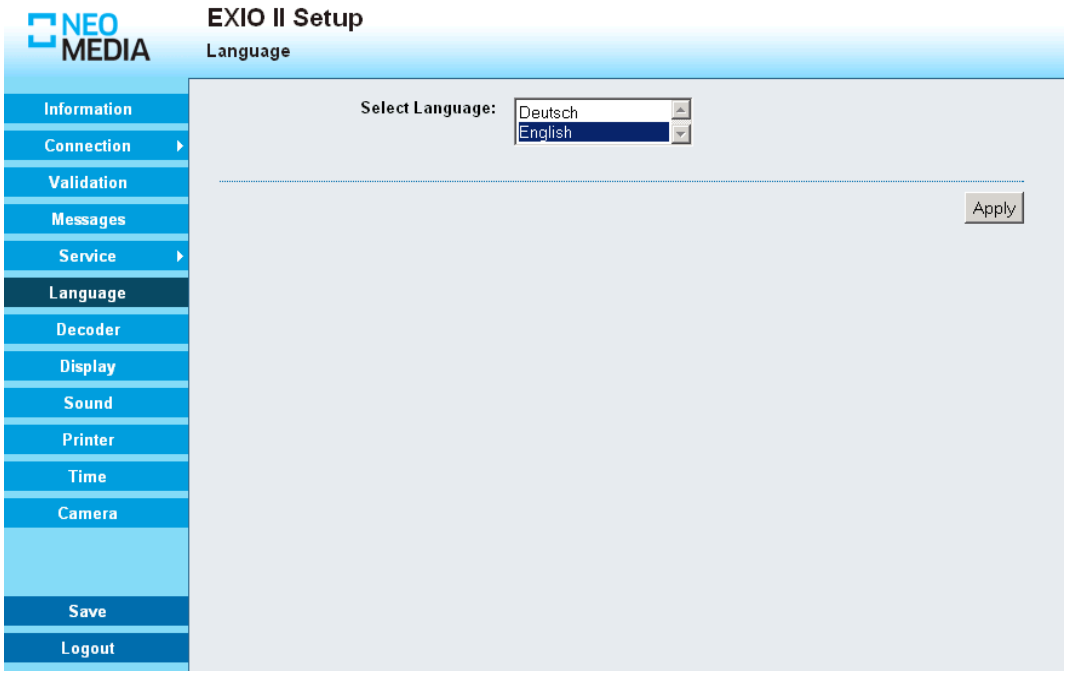
Remark: This page is just for information. You cannot make any changes.

Important: Click on ***Save*** to save your settings and have them definitely applied. If you do not save, all your parameters will be lost, also in case of a power interruption.

- Click on ***Logout*** to quit the web interface configuration.

Changing the language (Menu: Language)

- Start the web browser interface configuration as described in chapter *"Starting web interface configuration"* on page 60.



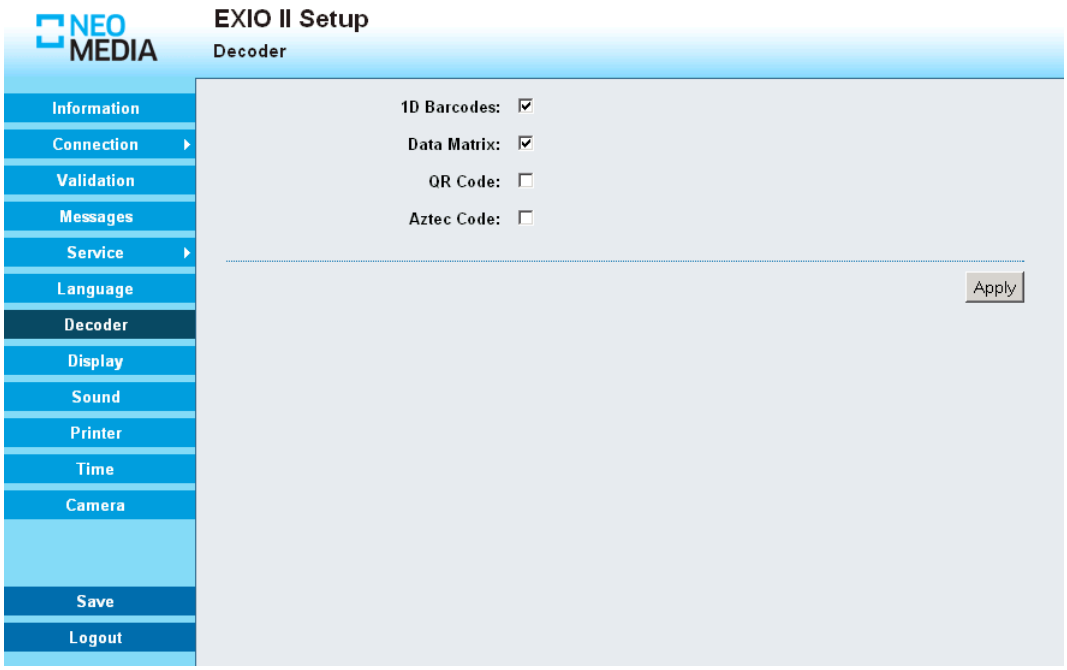
- Click on ***Language.***
- Use the scroll down menu to select the language.
- Click on ***Apply*** to to apply your configuration settings to EXIO.

Important: Click on ***Save*** to save your settings and have them definitely applied. If you do not save, all your parameters will be lost, also in case of a power interruption.

- Click on ***Logout*** to quit the web interface configuration.

Defining the barcode types (Menu: Decoder)

- Start the web browser interface configuration as described in chapter *"Starting web interface configuration"* on page 60.



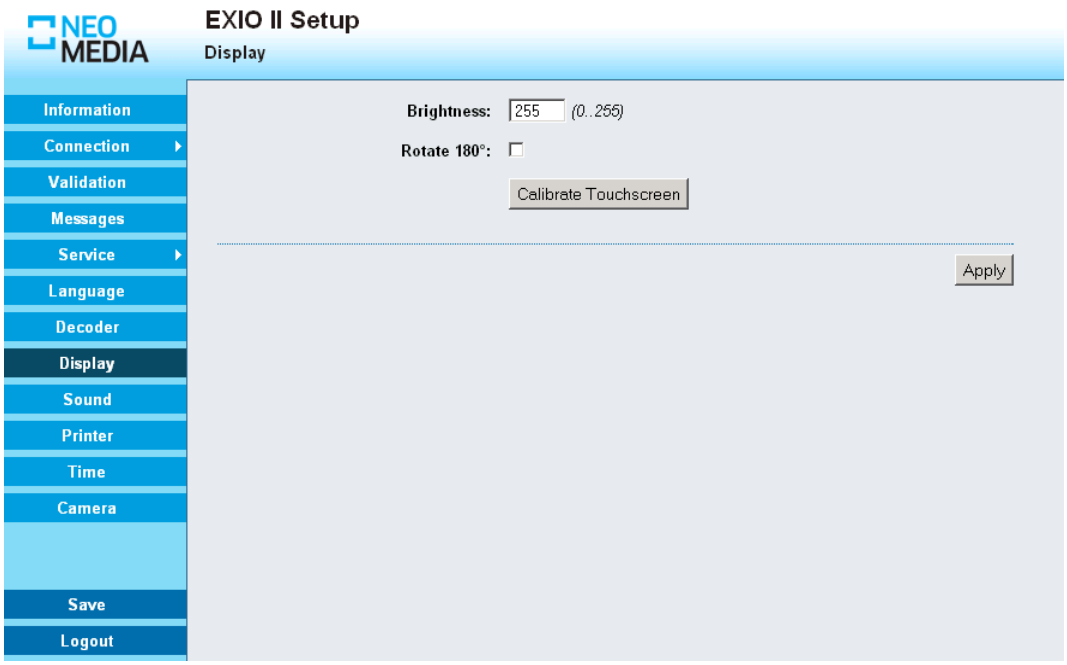
- Click on ***Decoder.***
- Check the box next to each code type to switch on the decoding of ***1D Barcodes***, ***Data Matrix***, ***QR Code*** and ***Aztec Code***.
- Click on ***Apply*** to to apply your configuration settings to EXIO.

Important: Click on ***Save*** to save your settings and have them definitely applied. If you do not save, all your parameters will be lost, also in case of a power interruption.

- Click on ***Logout*** to quit the web interface configuration.

Calibrating the touchscreen (Menu: Display)

- Start the web browser interface configuration as described in chapter *"Starting web interface configuration"* on page 60.



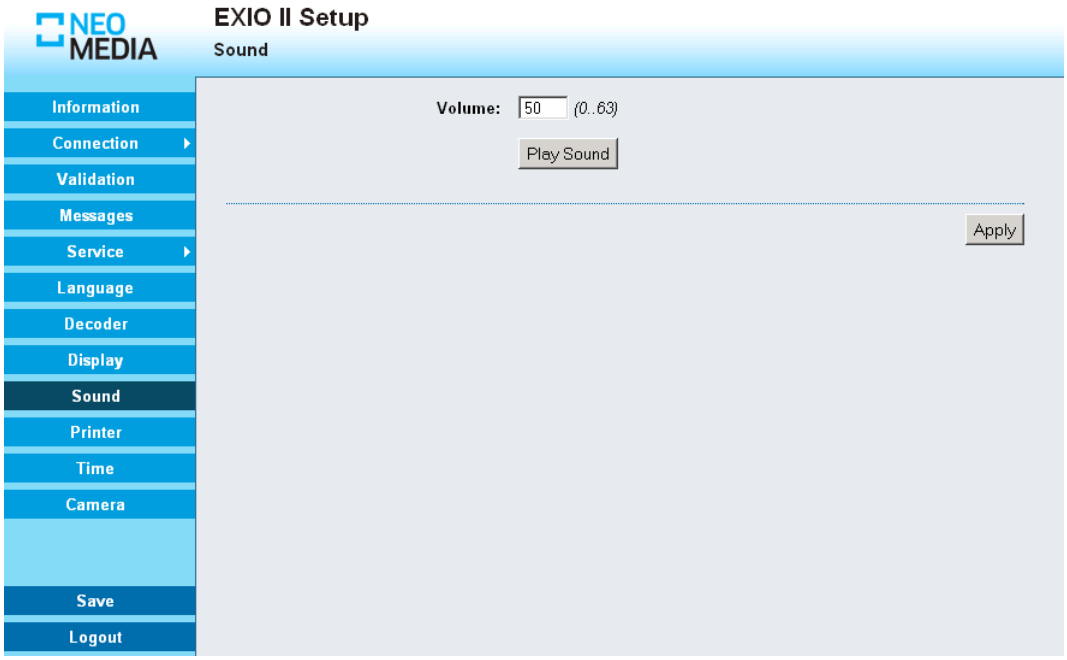
- Click on ***Display.***
- Set the display brightness by entering a number between 0 and 255 into the ***Brightness*** entry field.
- Check the box ***Rotate 180°*** if you want to flip the display image.
- Click on the button ***"Calibrate Touchscreen"*** if you want to start the touchscreen calibration. Confirm with ***Yes*** or go back with ***Cancel***.
- Click on ***Apply*** to to apply your configuration settings to EXIO.

Important: Click on ***Save*** to save your settings and have them definitely applied. If you do not save, all your parameters will be lost, also in case of a power interruption.

- Click on ***Logout*** to quit the web interface configuration.

Configuring the sound (Menu: Sound)

- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.



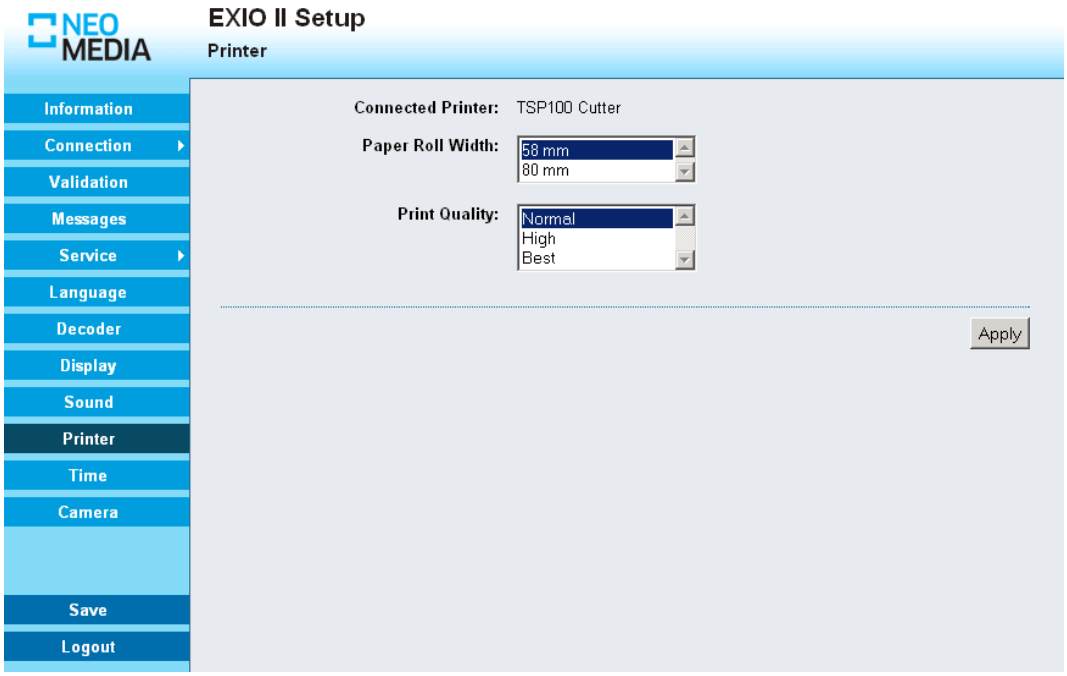
- Click on ***Sound.***
- Set the sound volume by entering a number between 0 and 63 into the ***Volume*** entry field.
- Click on the button ***"Play Sound"*** if you want to listen to the sound. The sound will be played.
- Click on ***Apply*** to to apply your configuration settings to EXIO.

Important: Click on ***Save*** to save your settings and have them definitely applied. If you do not save, all your parameters will be lost, also in case of a power interruption.

- Click on ***Logout*** to quit the web interface configuration.

Adjusting the printer (Menu: Printer)

- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.



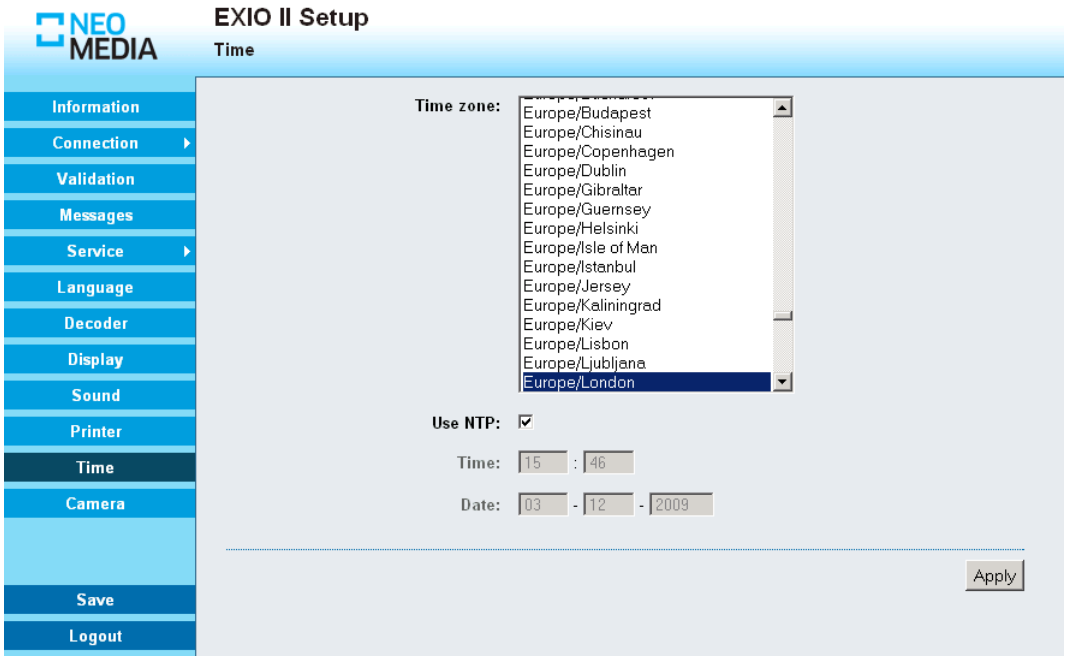
- Click on ***Printer.***
- The name of the printer which is connected to EXIO II will be displayed.
- Use the drop down menu to select the ***Paper Roll Width.***
- Use the drop down menu to select the ***Print Quality.***
- Click on ***Apply*** to to apply your configuration settings to EXIO.

Important: Click on ***Save*** to save your settings and have them definitely applied. If you do not save, all your parameters will be lost, also in case of a power interruption.

- Click on ***Logout*** to quit the web interface configuration.

Setting up the time (Menu: Time)

- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.



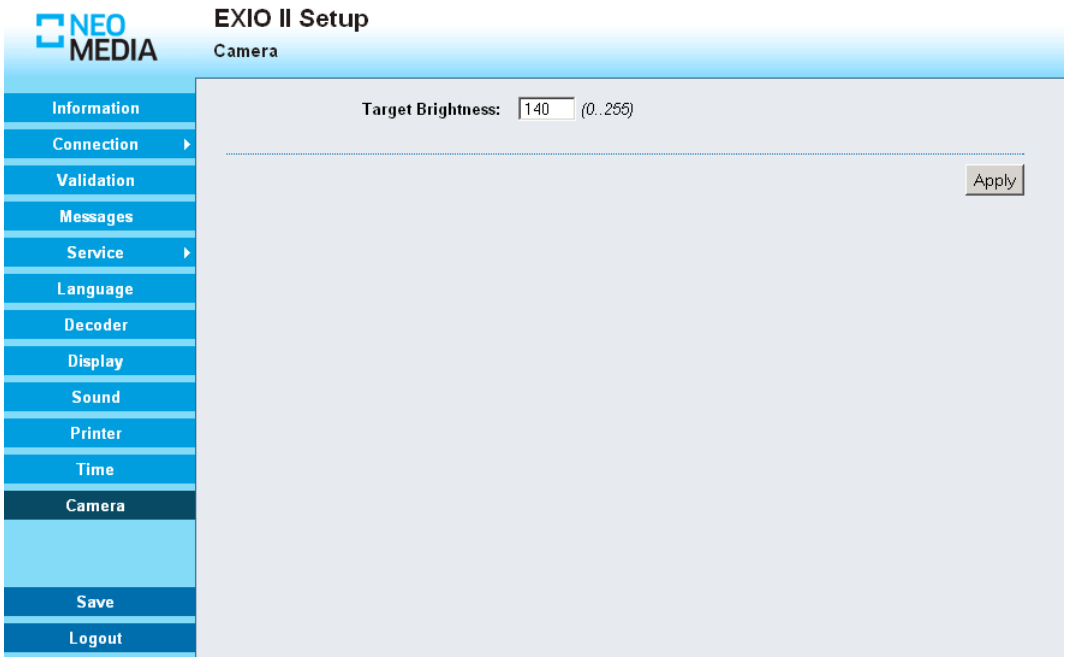
- Click on ***Time.***
- Use the drop down menu to select your ***Time Zone***.
- Check the box ***Use NTP*** if you want to use the Network Time Protocol to synchronize the EXIO II time to the reference time source.
- If you want to set up manually the time, deactivate the check box ***Use NTP*** and enter time and date into the appropriate entry fields.
- Click on ***Apply*** to to apply your configuration settings to EXIO.

Important: Click on ***Save*** to save your settings and have them definitely applied. If you do not save, all your parameters will be lost, also in case of a power interruption.

- Click on ***Logout*** to quit the web interface configuration.

Configuring the camera (Menu: Camera)

- Switch in the configuration mode as described in chapter *"Accessing the setup menu"* on page 17.



- Click on ***Camera.***
- Set the camera brightness by entering a number between 0 and 255 into the ***Target Brightness*** entry field.

Remark: ***Target brightness*** indicates the grey-scale target value selected for automatic camera adjustment.

- Click on ***Apply*** to to apply your configuration settings to EXIO.

Important: Click on ***Save*** to save your settings and have them definitely applied. If you do not save, all your parameters will be lost, also in case of a power interruption.

- Click on ***Logout*** to quit the web interface configuration.

Saving settings

Once you have made some settings, these have to be saved. The new parameter set of EXIO II will be then written to Flash memory.

- Click on ***Save*** to save and apply your settings.

Attention: If you do not save, all your parameters and settings will be lost when the device is powered off.

- Click on ***Logout*** to quit the web interface configuration.

APPENDIX A Miscellaneous

This chapter contains information on:

- **Warranty conditions**
- **Declaration of conformity**
- **Data sheet**
- **Open Source Software notice**

Warranty conditions of NeoMedia Europe AG

1. Warranty coverage

1. The warranty covers the equipment delivered and all its parts. Parts will, at NeoMedia Europe AG's sole discretion, be replaced or repaired free of charge if, despite proven proper handling and adherence to the operating instructions, these parts became defective due to fabrication and/or material defects. Alternatively, NeoMedia Europe AG reserves the right to replace the defective product with a comparable product with the same specifications and features. Operating manuals and possibly supplied software are excluded from the warranty.
2. Material and service charges shall be covered by NeoMedia Europe AG, but not shipping and handling costs involved in transport from the buyer to the service station and/or to NeoMedia Europe AG.
3. Replaced parts become property of NeoMedia Europe AG.
4. NeoMedia Europe AG is authorized to carry out technical changes (e.g. firmware updates) beyond repair and replacement of defective parts in order to bring the equipment up to the current technical state. This does not result in any additional charge for the customer. A legal claim to this service does not exist.

2. Warranty period

The warranty period for this NeoMedia Europe AG product is twelve months. The warranty period begins at the day of delivery. Warranty services carried out by NeoMedia Europe AG do not result in an extension of the warranty period nor do they initiate a new warranty period. The warranty period for installed replacement parts ends with the warranty period of the device as a whole.

3. Warranty procedure

1. If defects appear during the warranty period, the warranty claims must be made immediately, at the latest within a period of 7 days.
2. In the case of any externally visible damage arising from transport (e.g. damage to the housing), the person carrying out the transportation and the sender should be informed immediately. On discovery of damage which is

not externally visible, the transport company and the sender are to be immediately informed in writing, at the latest within 3 days of delivery.

3. Transport to and from the location where the warranty claim is accepted and/or the repaired device is exchanged, is at the purchaser's own risk and cost.
4. Warranty claims are only valid if a copy of the original purchase receipt is returned with the device.

4. Suspension of the warranty

All warranty claims will be deemed invalid

1. if the label with the serial number has been removed from the device,
2. if the device is damaged or destroyed as a result of acts of nature or by environmental influences (moisture, electric shock, dust, etc.),
3. if the device was stored or operated under conditions not in compliance with the technical specifications,
4. if the damage occurred due to incorrect handling, especially to non-observance of the system description and the operating instructions,
5. if the device was opened, repaired or modified by persons not contracted by NeoMedia Europe AG,
6. if the device shows any kind of mechanical damage,
7. if the warranty claim has not been reported in accordance with 3a) or 3b).

5. Operating mistakes

If it becomes apparent that the reported malfunction of the device has been caused by unsuitable hardware, software, installation or operation, NeoMedia Europe AG reserves the right to charge the purchaser for the resulting testing costs.

6. Additional regulations

1. The above conditions define the complete scope of NeoMedia Europe AG's legal liability.
2. The warranty gives no entitlement to additional claims, such as any refund in full or in part. Compensation claims, regardless of the legal basis, are excluded. This does not apply if e.g. injury to persons or damage to private

property are specifically covered by the product liability law, or in cases of intentional act or culpable negligence.

3. Claims for compensation of lost profits, indirect or consequential detriments, are excluded.
4. NeoMedia Europe AG is not liable for lost data or retrieval of lost data in cases of slight and ordinary negligence.
5. In the case that the intentional or culpable negligence of NeoMedia has caused a loss of data, NeoMedia Europe AG will be liable for those costs typical to the recovery of data where periodic security data back-ups have been made.
6. The warranty is valid only for the first purchaser and is not transferable.
7. The court of jurisdiction is located in Aachen, Germany in the case that the purchaser is a merchant. If the purchaser does not have a court of jurisdiction in the Federal Republic of Germany or if he moves his domicile out of Germany after conclusion of the contract, NeoMedia Europe AG's court of jurisdiction applies. This is also applicable if the purchaser's domicile is not known at the time of institution of proceedings.
8. The law of the Federal Republic of Germany is applicable. The UN commercial law does not apply to dealings between NeoMedia Europe AG and the purchaser.

Declaration of conformity

CE

KONFORMITÄTSERKLÄRUNG
DECLARATION OF CONFORMITY
DECLARATION DE CONFORMITE

Wir We Nous	**NeoMedia Europe AG** **Jens-Otto-Krag-Str. 11** **52146 Würselen** **Germany**
erklären, dass das Produkt: declare that the product: déclarons que le produit:	**EXIO® II**
Typ / Modell: Type / Model: Type / Modèle:	**Multi-application smart scanner to read barcodes and 2D codes from mobile phone displays**

den Anforderungen der folgenden EG-Richtlinien und EN-Normen entspricht:
fulfills the requirements of the following EC directives and European standards:
satisfait aux exigences des directives CE et normes européennes suivantes :

EG-Richtlinien EC directives Directives CE	**2004/108/EG – Elektromagnetische Verträglichkeit (EMC)** **2004/108/EG – Electromagnetic compatibility** **2004/108/EG – Compatibilité électromagnétique**
Harmonisierte Normen Harmonised standards Normes harmonisées	**EN 55024: 2003** einbegriffen / including / y compris **EN 61000-4-2: 2009;** **EN 61000-4-3: 2006 + A1: 2008;** **EN 61000-4-4: 2004;** **EN 61000-4-5: 2006;** **EN 61000-4-6: 2009;** **EN 61000-4-8: 1993 + A1: 2001;** **EN 61000-4-11: 2004** Emission: **EN 55022 Class B : 2008**

Würselen, 8. Dezember 2009
Würselen, 8th December 2009
Würselen, le 8 décembre 2009

Dr. Christian Steinborn
CEO

NEOMEDIA Technologies
NeoMedia Europe AG ■ Jens-Otto-Krag-Str. 11 ■ 52146 Würselen ■ Germany
T: +49 2405 499 22-0 ■ F: +49 2405 499 22-99 ■ info@neom.com ■ www.neom.com

This device uses a Telit GSM/GPRS data module GC864 QUAD, which has been assessed in order to satisfy the essential requirements of the R&TTE Directive 1999/05/EC (Radio Equipment & Telecommunications Terminal Equipments) to demonstrate the conformity against the harmonized standards with the final involvement of a Notified Body.

Since the module is installed in conformance to the Telit installations manual, no further evaluation under **Article 3.2** of the R&TTE Directive and no further involvement of a R&TTE Directive Notified Body for the final product is required.

Digital Inputs / Outputs
Pin assignment and wiring description

EXIO II features two Digital Out and two Digital In lines. These galvanically isolated I/Os are located on the black RJ45 socket (The socket between Ethernet and power socket).

Pin-out of black RJ45 connector

Pin	Function
1	+12V from EXIO II (only used if I/Os are powered by Exio II circuitry)
2	VCC to isolated I/Os (Max. 12V DC)
3	Isolated Out 1*
4	Isolated Out 2*
5	Isolated In 1
6	Isolated In 2
7	Ground to isolated I/Os
8	Ground from EXIO II (only used if I/Os are powered by EXIO II circuitry)

*The sum of the output currents may not exceed 200 mA

Important: Both Ethernet and Digital I/O sockets are RJ45 sockets. Please take care to not confuse these two sockets which have totally different function and pin-out.

Remark: If the galvanically isolated I/Os are required, just use pins 2 to 7 (please refer to pin-out and drawing).

Remark: If digital I/Os connected to the power of EXIO II are required, then connect pins 1/2 and 7/8 respectively to get access to IOs powered from the EXIO II power supply. This way there is no galvanic separation between the EXIO II circuits and the I/O lines.

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NeoMedia Source Code Requests
NeoMedia Europe AG
Jens-Otto-Krag-Str. 11
52146 Würselen
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Elektra

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